





THE
English Midwife
ENLARGED,

Containing
Directions to Midwives;

Wherein is laid down whatever is most requisite for the safe Practising her Art.

ALSO

Instructions for Women in their Conceiving, Bearing and Nursing of Children.

With two new Treatises, one of the Cure of Diseases and Symptoms happening to Women before and after Child-birth.

And another of the Diseases, &c. of little Children, and the conditions necessary to be considered in the choice of their Nipples and Milk.

The whole fitted for the meanest Capacities.

Illustrated with near 40 Copper-Cuts.

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THE
English Grammar
ENLARGED.

Directions to Midwives;

which is the most useful and necessary
knowledge for a Midwife to have.

1750

Instructions for the use of the
English Grammar, and for the
use of the Latin Grammar.

With a new and enlarged
edition of the English Grammar,
and a new and enlarged edition
of the Latin Grammar.

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To all

English Midwives.

YOU are here presented with an Amendment and Supplement, of what was very necessary and yet wanting in this Book formerly: so that now you will find it to be wholly compleated for your purpose; in every respect; it being altogether grounded upon many years Experience, and Observation in the Practice of deliveries; most others being written by those that never practiz'd the Art; and some father'd upon Persons that were no more concerned in them, then the Pope of *Rome*; such as *Sir Theodore de Mayern*, *Dr. Chamberlen*, and others; by the Publishers of the *Compleat Midwives Practice*; so that I may justly say of this Book, as the Learned *Sir Richard Baker* says of his *Chronicle*, that if all other were not to be found

To all English Midwives.

this alone were sufficient, with your diligence; For I'll assure you, I have not conceal'd one secret, belonging to your Art from you, neither would I have you with-hold your knowledge from others; neither have I imposed upon you any thing that hath not endur'd the Test of confirm'd experience; and in like manner I would not have you, upon any account whatsoever, to try any new experiment, either upon Rich or Poor; either inwardly or outwardly; thus much for the Book. Now as for what concerns your selves; I would have you by all means to have a respect to two things above all, your Consciences and Credits; and principally to the first; and to that end, for all the Treasure in the World, to give no Medicine to cause a Woman to miscarry of her Child; but prudently send such kind of People to the Learned Physitian to deal with: and that you may prosper in your Practise, discharge your duty as well to the Poor as Rich. Have a great care whom you lay in your Houses, for fear of encouraging

ing naughty Women ; Lastly I would advise you not to be dismay'd if every thing in your practise fall not out just at the very instance of your expectation; you performing your part ; but expect the event with patience ; for fear disorders the Senses, and Persons that keep their wits together without suffering them to be scattered thereby, are capable of Counselling in the most weighty Affairs. And now I shall no longer detain you in the Porch, but desire you will forthwith be pleased to walk into the Palace ; where I question not but you will find wherewith to satisfy your Curiosity in what concerns the premises ; and so wishing you all the Prosperity imaginable ; I bid you Adieu.

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THE

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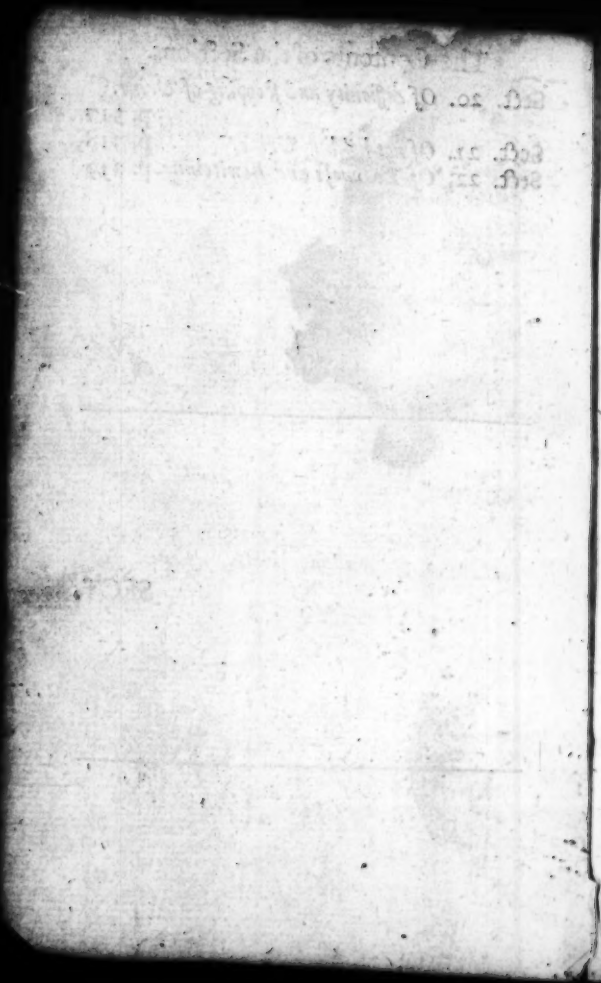
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SECT.



SECT. I.

*Of the True generation of the Parts,
and Increase of the Infant in the
Womb, according to the daies and
times, till the time of the Birth.*



When the Womb (whose property it is naturally to receive seed for generation, as a Loadstone attracts iron, or Jeat straws or feathers) hath received the seed, and by its virtue hath shut it up for generation; Presently, from the first day until the sixth or seventh, there grow and arise very many and very small fibres or hairs, beginning with a hot motion; by which vital heat the Liver, with its chiefeft organs are generated, as this following Figure may the more illustrate.

B

The



The small Fibres.

For the vital spirits, giving down seed to-
wards conception, forms and distinguishes
the chiest members by the tenth day, being
set in by certain veins of the secundine, to
which the matrix is fixed, and by which the
blood is imported, and of which the navil is
generated. And at the very same time three
small spots (not unlike to curds of milk) arise,
where

where the liver, the heart, and the brain have their places; and then presently a vein, directed by the navil, attracts the thicker blood confused with the seed, and makes it fit for nourishment: from whence also ariseth a vein with two forks, which is generated according to the form of this figure



3

In the one of which branches there is a collection of blood, of which first the liver is generated. From whence it easily appears,

B. 2

the

the liver is a congealed and concrete blood : and also it may be manifest, how many and various veins it hath prepared and fitted, for the attractive and expulsive virtue. But in the other branch are generated those webs of veins, with the dilatation of other veins, as of the stomach, spleen, and intestines, in the lower part of the belly. And from hence immediately all veins are collected together, as so many branches into one trunk, in the upper web of the liver towards the hollow vein ; and this trunk by and by sends down branches to make the *midriff*, and directs not a few branches to the lower parts, even to the very thighs: and then the heart, with its arteries extended into seed from the navil, is generated by a vital virtue, and is directed towards the spine of the back, as is demonstrated in this-figure, 3.

But



5

But those do attract the hottest and more subtile blood, of which the heart is generated, incased in a membrane, naturally fleshy and thick, necessary upon the account of so hot a member. But the hollow vein extending it self, and penetrating the inward concavity of the right side in the heart, &c. derives thence blood for the nourishment of the heart. From the same branch also of this

B 3

his

his vein, and in the same part another vein ariseth, called, by some, the immoveable, or quiet vein; because, according to the account of the pulsation of other veins it beats not at all, but lies quiet; ordained for this end, that it should let go the purest blood to the Lungs, being vested with a double tunicle like an Arterie, from whence it is called the Arterial vein. But in the left concavity of the heart there are two Arteries, that is to say, the Venal Arterie, and the Great Arterie, which carries a great pulse with it, and diffuseth the vital Spirits by the blood of the heart into all the Arteries of the Body. For, as the hollow vein is the original of all veins, by which the Body doth attract its whole nourishment of blood; so, from the *Aorta* (or great Arterie) all pulsatile veins are deriyed, diffusing the vital Spirits through the whole Body. For the heart is the fountain and original of vital heat, without which no creature or member can thrive.

Under the abovesaid Arterie in the left concavity of the heart, another vein ariseth called the Venal Arterie: And, although that be really a pulsatile vein, and doth direct the vital Spirits, yet, according to the manner of all pulsatile veins that have blood, it hath but one coat, and therefore made for that end, that it should derive the cold air from

from the Lungs to refresh the heart, as also to attemper its over-much heat.

And veins issuing out from both the cavities of the heart, are inserted into the Lungs, of which they are formed; for the vein that proceeds from the right cavity of the heart produceth the most subtil blood, which, by small fibres, dispersed here and there, is changed into the fleshy substance of the lungs. But from the great vein of the Liver, (*viz.* the *Vena Cava*, or hollow vein) the whole brest is generated, and so successively the Arms and Thighs.



Within the time aforesaid also is generated the highest and chiefest part of this noble structure, the Brain; in the third Region of this mass; for the whole mass of seed is filled with the animal Spirits, that contracts a great part of the genital moisture, and concludes it in a certain cavity wherein the brain may be formed: but, as to the out-side, it is enveloped with a certain covering, which being dried with heat, is brought into a boney substance, and becomes a scull, as appears by this precedent figure.

But the brain is so formed, that it may conceive, retain, and change the natures of all the vital Spirits, from whence also proceed the beginnings of all Reason, and of the Senses: For, as veins have their original from the Liver, and as arteries have their rise from the heart; so also nerves being of a softer and milder natural existence, arise from the brain, and are not hollow as the veins are, but solid; for they are the first and chiefest instruments of all the senses, by which the motions of all the senses, by reason of the vital spirit, are justly made.

After the nerves, from the brain also, is formed the pith of the back-bone, not of an unlike nature from the brain, so that it scarce can be called marrow because it hath no likeness to marrow, either by sight, or in sub-

substance ; for the marrow is a kind of superfluous aliment, arising from the blood of the members, appointed to moisten and make the bones of the body grow ; but the brain and pith of the back have their original from the seed, not deputed for the nourishment and growth of the other members, but that by themselves they might make private parts of the body, for the use and motion of the Senses, that from thence all the other nerves may take their rise. For, from the pith of the back many nerves arise, from which the body hath sense and motion, as may appear by the difference betwixt the vital and animal faculties, as hath been before hinted.

Moreover, here it is to be observed, that from the seed it self gristles, bones, coats of the veins of the Liver, and of the arteries of the heart, the brain with the Nerves, and again the tunicles, and as well other pannicles or membranes as those that wrap up the infant, are generated ; but from the proper blood of the infant is the flesh it self ingendred, and all those parts that are of a fleshy substance ; as the Heart, the Liver, and Lungs : And then at length all these grow together by the menstruous blood, attracted by the small veins of the Navel, which are observed to be directed with their orifices into the Womb. All which are distinctly made

made by the eighteenth day of the first month, from the very conception, at which time it may be called seed, but afterwards it becometh to be, and is called a child; which the Ancients have comprehended in these two verses,

Six daies in milk, thrice three the seed's in blood;

Twice six makes flesh, thrice six makes members good.

FF Sheweth a young one of 18 daies (though some hold it but 14 dayes in which all the members may be discerned apart,)

GG The four Umbilical Vessels meeting in one.

HH How the Umbilical Vessels become thick by degrees, that that doubt amongst some may be resolved, whether they spring from the Womb, or no.

III Sheweth how the Umbilical veins and arteries are spread throughout the *Chorion* by infinite branches.

KKK Sheweth the membrane called *Amnion*, in which sweat and urine are gathered together, in which the Infant swimmeth, and sits as safe as in a Bath.



The lesser figure denotes
the Nerves derived from
the Back and dispersed
through the whole.
The explanation of the
larger figure see in the
following page.

SECT. II.

Of the signs of Conception, and whether the Child thrive in the Womb.

DR. Good Mrs. *Entrapelia*, vouchsafe me your observations about Conceptions, and let me understand what are the signs of Conception in general; and what signs distinguish the Sexes?

Mid. Although, Sir, 'tis hard to know whether a woman hath conceived yea or no, yet it may be conjectured by many experienced Arguments; as, for instance,

First, it is thought a credible sign of Conception, if a woman either the tenth day after coition, or sooner, perceive not, by reason of any humors, any of her terms, be they whites, or reds. And, though the stopping of those be accounted for a sign, yet that fails often, because it may be as well before conception as after. But, waving this, let us find out other marks and prognosticks of a true conception, gathered from the state and condition of the woman her self; being seriously examined from head to foot.

Secondly;

12 *Signs of Conception in general.*

Secondly; pains and giddiness in the head, and a mist over the sight, if they meet together, these portend conception.

Thirdly, the apples of the Eyes are lessened, the Eyes swell, and become swarthy; the veins of the Eyes grow red, and are full with blood; the Eyes sink, the Eye-lids are remis; divers colors are seen in the Eyes, and are observed in a looking-glass; the veins betwixt the Eyes and the Nose are swoln with blood, and are seen clearer; the veins under the Tongue are somewhat greenish.

Fourthly, the chest is warm, and the back cold.

Fifthly, the Veins and Arteries are swoln, and the pulse easier; the veins in the breast are first black, then either yellow or blew.

Sixthly, The breasts grow big, and hard with pain; the nipple grows red; if she drinketh that which is cold, she feels cold in her breast.

Seventhly, there is a great loathing of meat and drink, and destruction of the natural appetite, with longings after various meats, with an absurd appetite, a continual vomiting, and weakness of stomach, lower belching, loathing of wine, an inordinate pulsation of the heart, sudden joy, and after that, as sudden grief, pains about the navil, heaviness

vineſs about the loins, ſwelling towards the bottom of the belly; inward pricking in the body; chilneſs of the outward parts, after coition; retention of the ſeed ſeven daies after copulation; about the beginning of conception a ſhooting pain about the back and belly. The courſes are ſtop'd; for thoſe veins from which they flow carry the blood (through certain holes that are at the end of them) for the nourishment of the infant by the navil; and part of it is conveyed upwards into the breasts, and there is prepared for milk.

Eightly, the thighs ſwell with pain, but the body is weaker, and the face pale.

Ninthly; the belly is coſtive, by reaſon of the compreſſure of the inteſtines. The urine is white, with a cold ſwimming at the top, wherein are to be ſeen many atomes, like thoſe observable in the beams of the ſun: but, when in the firſt Month many of theſe ſink to to the bottom, the veſſel in which it is, being ſhaken, it ſeems to be drawn out like to wooll. In the later months the urine is red-riſh, or yellow, it becomes blackiſh, with a red cloud at the top. I will here with relate to you two experiments, by which it may be known whether or no a woman hath conceived. And the firſt is this; Stop up a womans urine three daies in an urinall, at the
end

end of which strain it (or, rather drop it through fine linnen,) and if she hath conceived, you shall see little creatures like to lice; if these be red, 'tis a token of a male; but if white, they say portend a female. If a womans urine be put in a brass Bason, and stand there one night; if you put into it a bright needle, if she hath conceived, that needle will be bespeckled with red spots; but if otherwise, it will be rusty all over.

The Signs whereby most pretend to know, whether Male or Female be conceived, being altogether Falacious and Ridiculous, I have wholly omitted.

Dr. Since you have given such signs of Conception, let me know by what signs you apprehend the Infant to be well, and thrive in the Womb, or not.

Mid. I shall, Sir. And first, if it be well, the breasts will be hard; but if otherwise, they will be flaccid, and a waterish humor will flow out of them (like to milk) of its own accord.

Secondly, if the courses flow too often out of the Womb in the time of child-bearing, it is an argument of an unhealthy Child, And, moreover, the fattest Women commonly bring forth the weakest Infants.

Thirdly, if a woman bring Twins, the one a Male, the other a Female, there is great danger

danger of the Female, because they are nourished by a different aliment in the Womb: but if they be both Females, there is the less danger.

Fourthly, if the Child be gotten in the time of the monthly terms, they are mixed with untoward humors; from whence it is experienced that many leprous Infants are begotten.

Fifthly, if there be *superfatation*, the last conception seldom liveth. Now, *superfatation* is, when a Woman having once conceived, conceiveth again after a certain time, which sometimes happeneth.

Sixthly, if a Dropsie overtake the bigbellied Woman, and that her Nose, Ears, and Lips look red; it is a sign of a dead Child.

Seventhly, if the infant come forth after the ninth month, 'tis oftentimes very weak.

Eightly, if a virgin conceive before her first flowers, it proves lusty and perfect child.

D^r. So much for Conception. Tell me now somewhat of the nourishing of the Child in the Womb, &c.

SECT.

SECT. III.

Of the Nutriment of the Child in the Womb, and by what nourishment it is preserved, and when it groweth up to be an Infant.

WHILE the young one is in the womb, it is nourished by blood attracted by the navil; by which it is, that women after they have conceived have their terms stop'd; for then the infant begins to crave, and attracts much blood. For the blood, presently after conception, is discerned by a three-fold difference. The first and purest part of it the young one attracts for nourishment. The second, less pure and thin, the womb forceth upwards by certain veins to the breasts, where it becomes milk, by which the infant is nourished so soon as it is born. The third, and more impure part of the blood, remains in the womb, and floweth out with the secundine, both in the birth, and after the birth: Hence it is that *Hippocrates* saith; there is much affinity betwixt the flowers and the milk, since the one happeneth to be made out of the other. And *Galen* also, by reason of

of this thing, elegantly adviseth, that the infant hath more from the mother than from the father; for this reason, because the seeds are first increased by the menstruous blood, and then by these the Infant is presently nourished in the Womb; and again, being newly born, it is nourished with milk: And, as roots have more nourishment from the earth than the plant from whence they came: so also Infants receive more from the Mother than from the Father. And hence he saith that it comes to pass, that so much more is attributed to the Mother, by how much more She contributeth more towards generation.

But the Infant being now formed, and perfected in the Womb, in the first month the young one sends forth Urine by the passages of the Navil; but that Conduit being shut in

the last month, it vents it by the Privities (of which more when we come to treat of the second time (or after-birth, with its cords.) While the Infant is in the Womb, it avoids nothing by the Fundament, because it is shut up in working by the birth. After the day, as I have said, it receives it, and together with that a Soul (according to the opinion of many)



the last month, it vents it by the Privities;
 (of which more when we come to treat of
 the Secundine (or after burden, with its
 coats.) Whilest the Infant is in the Womb,
 it avoids nothing at the Fundament, because
 hitherto it hath sucked in nothing by the
 mouth. After the 45th day, as *Hippocrates*
 tells us, it receiveth life, and together with
 that a Soul (according to the opinion of ma-
 ny)

ny) divinely infused, for that then it begins to be sensible, and from that time it may no more be called a young one, but an Infant, according to the precedent Figure. And, though at this time it may have sense, yet it wants motion, being as yet very tender; but of the time of the motion, *Hippocrates* gives this account, viz. If you account the days double from the time of Conception, you will find them quicken; and the time of quickening being tripled, makes up the day of the birth. As for example,

If the Infant be formed in 45 days, it will stir in 90 days, which is the middle time that it lies hid in the Womb; for in the ninth month it will come forth, and make haste to the birth; although Females are oftentimes born in the tenth Month. And so much for the formation, increase, and perfection of the Infant, according to the account of days and times.

SECT. IV.

How the Infant doth in the Womb the fifth, the sixth, the seventh, and eighth month; and of the due time and form of the Birth; and causes of pain in Child-birth.

AFTER the third and fourth month the Infant useth a more plentiful nourishment, by which it groweth more and more until the time of Birth shall come: Therefore it is to be understood, that when it is born in the sixth month, it cannot, in nature, live; because, though it be formed distinctly, yet it is not arrived to its just perfection. But if it be born in the seventh month, it may easily live, because then it is sufficiently perfect. And, whereas 'tis a common opinion those born in the eighth month can rarely live; but such as are born in the seventh are often times living, because on the seventh month the Infant is ever moving towards the Birth, at which time, if it be strong enough, it comes to the Birth, but if not, it remaineth in the Womb till it groweth stronger,
(viz.)

(viz.) the other two Months. After the motion at seven Months end if it be not born, it removes it self into some other place of the Womb, and is so weakned by that motion, that should it come to the birth in the following eighth Month, it cannot live by reason of that motion.

This seems very probable to many, but if they that practise deliveries make a rational reflection thereon, they shall find that 'tis the Matrix alone assisted with the compression of the Muscles of the lower belly and Midriff, which cause the expulsion of the Child; being stirred up by its weight, and not able to be farther extended to contain it: and not the Infant for want of nourishment is not able to stay any longer there, and so useth its pretended endeavours to come forth; and to that purpose kicking strongly it, breaks the Membranes with its Feet which contain the waters, insomuch as when the Child is naturally Born the skins are alwaies torn before the Head; which pressing and thrusting each through the waters before it, causeth them to burst out with force. *Hippocrates* admits the 10 month, and beginning of the 11. And here, I do acknowledge for truth that the ordinary term of going with Child is 9 months; but I cannot consent that Children born in the 7 month do oftener live than those born

in the 8, but on the contrary, I believe the nearer they approach to the term of 9 months the stronger they are, and therefore rather live then those born in the 7th, which is wholly contrary to the other opinion which they have from *Hippocrates*; and in *Egypt* and *Spain* and other places Children born in the 8th month live. But they should have considered there may be some difference about *Hippocrates's* Months, viz. whether they were *Solar* or *Lunar*, a *Solar* consisting of 30 or 31 days throughout the year, and a *Lunar* of 27 days and some odd Hours and odd Minutes.

And then again the Women might be mistaken in their reckoning. And do we not know not only in the same Country and Field but also on the same Vine, grapes sometimes six weeks ripe before their ordinary Season; and others not till a month after? which happens according to the Territories, different influence of the Sun, and as the Vine is ordered. So do we see Women brought to bed six weeks and 2 months before, and sometimes as long after their ordinary term; if it be not that the Womb not being capable of an extension beyond a certain degree, cannot bear its burden, but a little while after the account is out; although there have been Women as *Hippocrates* acknowledgeth who have

have gone 10 or 11 whole Months with Child, which is so much the rarer, by how much it exceeds its limits.

These things happen also to Women according to the different dispositions, either of their whole body, or Womb alone, as well as according to their rule of living, and more or less exercise they use, and may also happen on the Childs part, as if at 7 months it be so big that the Womb can no longer contain it, nor stretch it self more without bursting, it is then provoked by the pain which this violent extention causeth to discharge it self of it; and so in the 8th month if there be the same reason, and some weeks sooner or later according to many other circumstances; as also by an outward occasion, as a violent shaking of the whole body, blow, fall, leap, &c. halting the pains; and that which makes these Children live a longer or shorter time, is according as they are at that time more strong and perfect, and the Woman nearer her time which is at the end of the 9th month.

There have been many Women that have believed they were brought to bed at the 7th and 8th Month; and others that they went 10 or 11 whole Months; which may sometimes be when notwithstanding they are effectively delivered at the due time: that

which deceives them usually is their believing themselves with Child from the retention of their Courses, having had them the 2 first Months, yea and sometimes longer, and others misreckon when their Courses are stopt 2 Months before they conceive: And a Woman, though well regulat'd, cannot exactly know by the suppression singly the certain time of her being with Child; as for example, if she lye with her Husband upon the coming down of her Courses, and she conceive upon it, then she may make her account from their suppression, which may be very near the truth; but if she conceive immediately after she hath had them, which happens oftneft, and that during the Month she Copulates with her Husband, at the end of which time her Courses not coming down, she may very well reckon her self with Child, yet for all this she cannot know by this sign which Night she conceived on, and so for 3 weeks or a Month, more or less, she may be mistaken in the time.

Here note there hath often been great contests amongst Physitians, whether a Child born the 11th or 12th Month, after its pretended Fathers death, can be legitimately born, and so admitted to inherit, or be disinherited, as a supposed Child; but this having been debated by the *Romans* as well as us, and
being

being parties for and against, I shall leave it undecided, and shall not add any thing more concerning this point to what I have said before.

And now the Midwife is to take care, that she be timely prepared for the reception of any birth, with all her necessary conveniences and instruments, as with a fit stool, a sharp knife, astringent powder, a sponge, swathes, &c. warm oyl of Lillies, with which she may aptly anoint both the Womb of the Woman and her own hands, but of that more hereafter.

And now in the next place let us make enquiry for the fittest and best Midwife, for this great work, and now I remember my self there was a good Woman call'd Mrs. *Enrrapelia* with me last night, for my advice and counsel in a very difficult concern, whom I found by that little discourse I had with her to be a very rational and understanding and expert woman in her art, and one that was not self conceited of her self, like many of her Sisters, that think they know all, and believe 'tis below them to ask any advice of the learned Physitian or Chyrurgion, when indeed they are ofteneft the most ignorant; for 'tis the Physitian and Chyrurgion that they must be obliged to for the chief part of their Art, and in *France* 'tis the Chyrurgions employ

26 *How the Infant doth from, &c.*

employ to help Women in Child-birth, and she promised to be with me very early this morning to give me account how it fared with her Patient, and of the success of my directions, and heark I believe 'tis she knocking at the door at this instant.

Here note by the by, that 'tis romantick to say, that the Males are generated in the right side of the Matrix, but Females in the left, out of the left Testicle; for the right side, by reason of the Liver, is hotter, but the left cooler; for when there are Twins, sometime they are of the same Sex, but principally the abundant heat of Seed is the cause of the generation of Males.

CC Denotes the Kidneys of each side.

DD The emulgent Veins on the right side.

EE The emulgent Arteries on the right side.

F The trunk of the hollow vein.

HH The emulgent Arteries on the left side.

LL The Spermatick Veins on the right side.

K The Spermatick Arterie on the right side.

M The Spermatick Veins on the left side.

The Explanation of the Figure. 27

- aa The Ureters cut off.
oo The Feminine Testicles.
PP The broad ligament like Batts wings.
qq The trunk of the great Arterie.
BB Vessels like Vine-branches.
Y The shaft of the Womb.
R The bottom of the Womb where the
Infant lieth.

SECT.

SECT. V.

*Rules for Child-bearing Women, and
how to prevent Abortion.*

M*Id.* According to your promise, I beseech you, Doctor, lay me down some Rules to be observed by Child-bearing Women.

Dr. Good Midwife, I shall, and that very necessary ones too, that she may know how to go on safely through (by Gods blessing) to the last hour, or by neglecting them, may make her delivery the harder: and I shall reduce them under ten heads.

First, let her be chearful; for this doth exhilarate the Infant, and stirs up all the faculties, and confirms it in its parts and Members.

Secondly, let her avoid all violent motion, and abstain from all hard labours, not rising up too hastily, not leaping, running, dancing, riding; not lacing her self too streight, or carrying too heavy a burden; but surely moderate sleep and rest, is very fit for her. And all this especially toward the latter end of her reckoning; for though it be
allowed

allowed them by most Authors to facilitate the Birth, yet if we well consider the point we shall without doubt find it to be the cause of miscarriages, and hard labors, and death of many Women and Children. For you must know that the Birth of a Child ought to be left to the work of Nature well regulated, and not to provoke it, by shaking and jolting, as in a Coach, or by a trotting Horse, and to dislodge it before its full time, which happening though it be but 7 or 8 days sooner proves sometimes as prejudicial to the Infant, as we see it sometimes to Grapes which we find 4 or 5 days before they are full ripe, to be yet almost half verjuice; But to explain this more clearly, consider the Infant is naturally seated in the Womb, with Head uppermost and the Feet downwards, with its Face towards the Mothers belly, just till it hath attained the 8th Month; at which time and sometimes sooner, and sometimes later, its head being very great and heavy, it turns over its Head downward and its heels upward; which is the sole and true posture in which it ought to come into the World. Now just when the Child is about to turn according to custome into its intended posture, instead of giving her self rest, she fall a jumping, walking, running up and down staires, and exercising her self more then ordinary,

30 *Rules for Child-bearing Women,*

dinary, which very often causes it to turn cross, and not right, as it ought to be; and sometimes the Womb is depressed to low, and engaged in such sort towards the last Month, in cavity of the flanks by those joltings, that there is no liberty left the Infant to turn it self naturally; wherefore it is constrained to come in its first posture, to wit by the Feet, or some other worser: moreover it would be very convenient that the Woman should abstain from having to do with a Man carnally, during the 2 last months of her reckoning, forasmuch as the body is thereby much moved, and the belly pressed in the action, which likewise causeth the Child to take a wrong posture. Now I believe that those that will seriously reflect and consider of these things, will be ready to quit this their old error, which hath certainly caused the death of many Women and Children, and much pain to divers others.

Thirdly, let her beware of sharp and cold winds, of excessive heat, anger, troubles of the mind, affrights and terrors, over-much venery, and of intemperancy of eating and drinking.

Fourthly let her diet be frugal, and moderate, abstaining from gross meats, hard of digestion; let her eat Eggs, Chickens, Land-fowl, birds of the Mountains, &c. variety
of

Rules, for Child-bearing Women. 31

of broths, grewels, panadoes, Mutton, Veal, Lamb, Kid, Rabbits; she may use in her meats Nutmeg and Cinnamon; she may drink wine moderately.

Fifthly, in the first four Months let her open no vein, use no cupping or scarrifications, fontanells, nor use any pills, or other Physick, without the advice of a prudent Physitian; for in these Months the ligaments of the Child are very tender, soft, and feeble; and therefore the easier destroyed, and the nourishment kept from it.

Sixthly, if it shall happen that the Woman be too costive (by which many miscarry) let her boyl Spinage, and Lettuce, in Veal broth well buttered, with salt, or wine; which, if they will not move the belly, let her use suppositories, with honey and salt, or of *Castile*-soap: and if these common things will not do, let her advise with an expert Physitian.

Seventhly, if it happen that she conceive with grievous symptoms, and after conception is troubled with faintings, let her take this Cordial following. Take of Sorrel-water, and red-Rose-water, of each one ounce; of Cinnamon-water one ounce; of *Manus Christi* pearled, half an ounce, or as much *Diamargariton*: this may be taken as need requires.

Eighthly,

Eighthly, if she fear that she may come (before her time) as in the seventh Month, or some other unseasonable time, and feels throws, as of Child-bearing, let her sit over a fume of Frankincense; for that contributes no small strength both to the Womb, and to the Infant also.

Ninthly, if she nauseate her meat, she may use a plaister of Mastich to her Stomach, and take this following Cordial every morning, fasting, to strengthen her Stomach.

Take Syrup of Pomegranates one ounce and half; of Mosch and Ambergreece, of each two grains; of *Lignum Aloes* finely powdered, one scruple; of Cinamon half a scruple; the water of Sorrel three ounces; let these be mingled, and drank off blood-warm.

Lastly, if, whilst she go with Child, she perceive her terms, let her eat milk, made boyl with red-hot steel, and in that let Plantain and Comfrey be boyled. But, in all these cases, let her advise with learned Physicians, which will direct her with medicines from time to time.

I shall hereafter treat of some distempers incident to Child-bed; and leave you some choice Remedies in the following Sections; and then wind up all.

SECT.



*A Naturall
Birch.*

SECT. VI.

A Dialogue between the Midwife, and the Doctor, concerning Midwives and the delivery of Women in Child-birth.

M*Id.* A good morning to you good Mr. Dr. Sir I am come according to my promise, to give you an account of the event of the directions you was pleased to give me last Night concerning Mrs. *Styles*, the which indeed Sir have succeeded marvellous prosperously, and she now thinks her self in Paradise to what she was before, and hath sent you Sir a small gratuity according to her ability, in acknowledgment of the great benefit she hath received by your Counsel. And for my own part Sir I so well approve of your last Nights discourse, that I must humbly entreat you, that you would be pleased to afford me your Instructions in the safe performance of my Art.

Dr. Very willingly good *Mrs.* and truly your name bespeaks you a fit Woman for your Employ, as being a well bred Woman,
D there

therefore I shall in the first place take occasion to tell you what kind of person a Midwife ought to be, and that in the subsequent description.

The best Midwife is she that is ingenious, knowing letters, and having a good memory, is studious, neat and cleanly over the whole body, healthful, strong, and laborious, and well instructed in Womens conditions: not soon angry, nor turbulent, or haity, unsober, unchaste; but pleasant, quiet, prudent; not covetous, but like the Hebrew Midwives, such as fear God, that God may deal with them, and that people may multiply and increase after their hands, and that the Lord may build them Houses.

By this description I tell you only how the best Midwife must be qualified; now let me hear somewhat of your skill, that I may the better judge thereof. First, then let me know how Women are delivered?

Mid. Women are variously delivered, some on their bed, that is to say, o'rethwart the hardest bed, with their Faces upward, with their Feet closed, doubled, and covered. But if she be not so tired out that of necessity she must be delivered on the bed, remove her to the stool: now the stool must be strong, and cut with a hole, in the shape of the moon, as high as a Barbers chair, that the
Midwife

Midwife sitting upon a lower stool, may the better bring the Infant from the upper parts; the Womans face being still from her. Then let her attend with her finger dipped in warm oyl of sweet Almonds, or Lillies, moved about the orifice of the Womb, that the secundine (called the afterburden) may the easier fall out. Then let those that are about her (which need not be above three at a time, that is to say, on each side one, and one at her back) persuade her not to cry out, but to keep in her breath what she may, that the spirits may descend, and be exposed downwards, to depress the Midriff, especially when her throwes are upon her. If the secundine be not broken after a long while, it may be broken, carefully, with the nail of the finger, and thrusting the finger in by degrees. But oftentimes the orifice openeth naturally, by reason of the humors that flow out by it. But always this caution must be observed by the Midwife; that the Infant fall not suddenly out, lest that endanger too sudden a shaking both of the head and shoulders. But the humors flowing; and the orifice so open, the Midwife may take hold of it, and moving it to and fro, bring it to the birth (according to the natural posture described before in the fourth Section) which must be done at such a time when the orifice of the Womb openeth

36 Cautions, & how the Navil must be cut.

eth it self, and not otherwise; lest with hastiness the flux of blood (which always attends the birth) be too immoderate, and so the Womb it self come forth. When the Infant begins to come forth, let the Midwife take and receive it in a cloth in her hands, and let it come down together with the Secundine. After the Child hath rested a while, the Navil must be cut four inches in length, with a sharp pen-knife, being sufficiently tied with a strong double silk in two places, and cut betwixt the knots, to prevent as well a flux of blood in the Infant as in the Mother. After it is cut off, dry up the coagulated blood, with some astringent powder, as *Thur aloes* at the Apothecaries.

As to the washing of the Child, and swathing, I need not give you any account, I suppose you take it for granted, that most women understand that. I only here shew you the shape of the stool I use, which, I hope, you will not disapprove of, though few Midwives have them, or use them.

Dr. I like, Mrs. the use of your stool, as being most useful, and especially by reason of the skirt of cloth that usually ought to be about it, to keep away the air, which gives me occasion to give you one necessary Admonition by the way. That all Midwives take heed that they expose not their Women, that
are



are in labour, to the cold Air, but rather that they cover the Privities with the secundine also whilest it is yet hot, or else with warm clothes presently after the birth. For, believe me, (neither is it only my opinion, but also the opinion of the most Learned Doctors) that there is nothing worse to child-bearing Women than the cold air, because that entring into the Womb, the Womb it self is distended, waxeth cold, and swelleth, and its orifices are shut; through which passes the menstruous matter; and then arise grievous symptoms, and often times death it self. But as to the suppression of them, and their cure, we shall speak more hereafter.

This precedent Figure is the form of a Child lying in the Womb (according as cut in *Tho. Bartholinus*, in Page 197.) naked, and out of all its coats both proper and common. The description of it appears by the explanation of these letters in it, viz.

AA Shews the parts of the *Chorion* dissected, and removed from their proper place.

B a Portion of the Membrane *Amnios*.

CC The Membrane of the Womb dissected.

DD The *placenta Uteri*, or *hepar uterinum*, being a fleshy substance full of many

Vessels, by which the Infant receives its nourishment.

E The varication of the Veffels which makes up the Navil string.

FF The Navil string by which the *Umbilick* vessels are carried from the *placenta* to the Navil.

GG The Infant, as it lies perfect in the Womb near the time of Travel.

H How the umbilical vessels are inserted into the Navil of the Infant.

The following are the names of the persons who have been

SECT.

100

SECT. VII.

Of the several natural situations of the Infant in the Mothers Womb, according to the different times of Child-bearing.

WHen the Woman is young, with Child, the little creature call'd the *Embryo* is always of a round Figure, a little longish, having the back-bone moderately turn'd inwards, the thighs folded and a little raised, to which the Legs are so joined, that the heels touch the buttocks; the arms are bending and the hands placed upon the knees, towards which the head is inclining forwards, so that the chin toucheth the breast; In this posture it resembles one sitting to void his excrements, and stooping down his head to see what comes from him. Its back bone is at that time placed towards the Mothers, the head uppermost, the face forward, and the feet downward; and proportionably to its growth, it extends its members by little and little; which were exactly folded in the first Month; This posture it usually keeps till the

7th or 8th month, at which time the head being grown big is carryed downwards by its weight, towards the inward orifice of the Womb, tumbling as it were over its head, so that then the Feet are uppermost, and the Face towards the Mothers great gut; when the posture happens otherwise, 'tis unnatural; (and both Male and Female lie thus;) because the Child's face coming upwards will be extreemly bruised, and its Nose wholly flatted, because of the bones hardness in the passage.

Note further, when the Child hath changed its first Situation being not yet accustomed to this last, it stirs and torments it self so much sometimes, that the woman, by reason of the pain she feels, is apt to believe she is in labor, and if this circumstance be well consider'd, you will find it to be that first pretended indeavour, which Authors imagine the Child makes to be born the 7th month; and not being able to accomplish it, it stays till the 9th &c. But this is a great mistake, for if the Child turns it self so with the head downwards, or rather is turned, it is but by a natural disposition of the weight of the upper parts of the body; and if it stir much at that time and soon after, it is not from a desire to be born, but from the inconvenience it receives from this new posture, to which
it

it was not before accustomed : and it begins to turn thus sometimes from the 7th month, rarely before, but by accident ; often about the 8th and sometimes the 9th only, and at other times also it doth not turn at all, as we may easily perceive in those that come in their first Situation, that is with their Feet foremost.

When there are many Children they ought to come in the same Figure if it be a natural Birth, as when there is but one ; but usually by their different motions they incommode one another, that for the most part one presents wrong in time of labour ; yea and before, which is the cause that one comes often with the head, the other with the feet, or some worse posture, and sometimes both come wrong. However the Infant may be settled in the Mothers belly, or in whatever fashion it represents it self at the birth, if it be not according to the posture before said, it is always against nature.

SECT,

SECT. VIII.

Of difficult births, whether they proceed from Causes external or internal.

Difficult births from external causes may be either, first, from excessive heat, dissolving the strength of the women; or secondly, excessive cold, condensing the womb; or thirdly, from sweet things, often applied to the nostrils of the woman, that by smelling to sweet things she may recover her strength and faintings; for sweet smells do attract the womb upwards, and so render the birth more difficult.

Difficult birth from internal causes may be either, first, from the woman; secondly, from the womb; thirdly, from the infant; fourthly from the membranes of the womb.

1. From the woman, as when she is too angry, too fearful, or too modest; or if she be in age above 40 years, from whence the muscles of the womb may be concluded to be dry, and so the less extensible; or when she is so thick and fat, that the passages be narrow:

Or,

Or, 2. From the womb it self, as, when it is so small, and nature so weak and feeble that it cannot expell the birth: Or, if there be any inflammation; or unnatural affect in the privities, be it the stone, or piles, or extraordinary costiveness; all which may so compress the womb with their weight, that it cannot expel the birth. 3. Is from the infant it self, as if it be of an unusual bigness, of a great head, or a monstrous birth, hydropical, full of wind, dead in the womb, or lying there in a posture beyond nature; as when it comes overthwart, with the feet forward, and not the head, or if the thigh before the head. 4. From the membranes of the womb, as when they are so forcibly broken by the child in the womb that the moysture floweth thence, leaving the infant behind, that when the child should come forth, that moysture faileth, and so the membranes being dryer, maketh the birth the more difficult; or when it is firm and solid that it is broken with much difficulty, and so makes the labour the harder.

And here we cannot but take notice how those Authors, who have not the perfect knowledge of the parts of a Womans body, attained to by Anatomy, do admire and cannot as they say, conceive how it is possible that an Infant so big can pass, in time of labour, through

through an opening of the Womb so small ; some of them being of opinion that the Womans share-bone is seperated at that time, to enlarge the passage ; without which it would be impossible for the Infant to have room enough to be born ; and therefore Women that are a little antiquated suffer in their first labors more than others, because their share-bone cannot so easily be seperated, which often kills their Children in their passage : others again are of opinion that it is the flank-bone, which is disjointed from the hoop-bone for the same purpose ; and say both the one and the other of them, viz. That these bones thus separated at the hour of labor, are thereto so disposed by degrees, a little before, by the stymy humors which flow forth from about the Womb, and then mollifie the gristles and cords which at other times join them firmly together. But both these opinions are as different from truth as reason ; for Anatomy convinceth us clearly that the Womb by no means toucheth these places ; whereby to moisten and soften them by its humors ; as likewise that these bones are so joined by the gristle that it is very difficult to seperate them with a knife, especially the flank-bone from the hoop-bone, and almost impossible in some elderly Women without great violence ; although *Ambrose Parry*, a most famous Chirurgion

rurgion in his time at *Paris*, (quoting many witnesses to the thing) gives us an History of a Woman in whom (having been hang'd 14 days after she was delivered in Child-birth,) he found (as he saith) the shære bone separated in the middle the bredth of half a finger, and the flanck-bones themselves disjointed from the hoop-bone. But we will not in this matter accuse him of an imposture as having too much respect, and a better opinion of so worthy a person, and believing him to be too sincere as to commit such a crime; but do indeed believe the good man might be mistaken in this separation; for we cannot probably conceive that being so at the time of her labor it would remain so a fortnight after, the breadth of half a finger; for then they would have been forc'd to carry this Woman to execution; (for they are executed at *Paris* within the City or Suburbs,) because she would not have been able to have supported her self, or climbe the ladder of the Gibbet; and keep her self on her Legs according to the custome of other Malefactors; because the body is only supported by the stability of these bones; wherefore we must believe, as most probable, that such a disjunction and separation was caused either from the falling of this Womans body from the high Gibbet to the ground after execution;

on; or from some blow on that place from some hard thing. And if we thoroughly examine the different Figure and Structure of these bones between a Mans and a Womans *Skeleton*, we shall find a larger empty space and distance between these bones much more considerable in women then in men; and that to this purpose the least women have the bones of the hip more distant the one from the other, than the biggest man; and they have also the crupper-bone more outwards, and the sharebone flatter, which makes the passage from this capacity larger, and more able to give issue to the child at the time of labour: moreover they have besides this the flank bones much more turned outward, that the womb being filled may have more room to stretch it self out on the sides, and more at ease supported by such a disposition; as you will see explain'd In the figure.

A shows the Man's bones. B the Womans; for to know the difference that the Womans is more capacious then the Mans, for C and C, D and D, E and E are at a larger distance one from another, in a Woman than in a Man. And besides that Women have the rump bone marked F. more turned outwards than Men, which gives way to the head to pass through the large passage between the 2 Hip-bones, marked E and E, without great difficulty; and without any necessity for the separation of the share-bone. The

The bladder and great gut being emptyed of the excrements they contain hinder, in no wise but that the womb, made membranous or skinny for that purpose, can stretch forth it self as it doth to let the infant pass in labour, by this great empty space sufficient for it without any necessity that these bones should be disjointed or separated; for if it should so fall out indeed women could not sustain themselves on their legs; as many of them do immediately after that they are brought to bed; because they are instead of a support to them, as is already exprest, and of a middle jointure to all the other, as well of the upper as the lower parts of the body. Which the learned and judicious and experienced Chirurgion Mr. *Francis Moriceau* very well noted, when he lay'd so many Women in the *Hôtel de dieu* in *Paris*; for when Women that are there to be brought to bed begin to be in labor, they go into a little room call'd the stove, where all are delivered upon a little low bed made expressly, where they place them before the fire, afterwards as soon as they are delivered they conduct them to their bed, which sometimes is a good way off from this little chamber, whither they walk very well, which they could never do were their share-bone, or their flank-bone separated the one from the other. Besides we c-

ten

ten see young Women that have concealed their labour, put themselves (the better to hide their faults,) immediately to their ordinary business as if they had ailed nothing: neither could this ingenious Chyrurgion, in all women that ever he delivered, ever perceive this pretended disjunction, though he put his hand on the shere bone when the child was in passage; but he sayes that indeed he hath found the hip-bone which is joyned with a loose Joint, to the lower extremity of the hoop-bone to bend outwards during labour: in which part the women feel sometimes much pain because the coming forth of the child offers it a great violence, and because its head at that time doth much press the great gut against it.

Moreover having often seen and dissected women, being dead a few days after their delivery, it hath been found a very difficult matter to sepearate these bones with a strong sharp Pen-knife; where could not be found any the least appearance of any forgoing separation; and if those advanced in years have more pain with their first children than the younger women, it doth not proceed from the difficulty of the sepearation of these bones (which never is, from the reason aforesaid) but because the membranes of their womb are dry, and hard; and particularly its internal orifice, which

The causes of difficult birth, &c. 49

cannot therefore so easily be stretched open as young womens, which in them is much moister.

Of the Passions, and Figures of the Uterus, and how they can be born.

The Passions of the Uterus in the young

and old, and how they can be born. The Passions of the Uterus in the young and old, and how they can be born. The Passions of the Uterus in the young and old, and how they can be born.

E **SECT.**

The Passions of the Uterus in the young and old, and how they can be born. The Passions of the Uterus in the young and old, and how they can be born. The Passions of the Uterus in the young and old, and how they can be born.

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SECT. IX.

Of the Fashions, and Figures of the birth, and how Children are born or may be born.

THE postures of the infant in the womb are generally four: First, they offer to come with their heads forward (which is the natural birth.) Secondly, with the feet forwards. Thirdly, overthwart. Fourthly, doubled; to all which the Midwives care and skill is required, but especially in the three later. But many other postures have been observed, in practice; for that child that comes with his head forward, sometimes hath his head right, as to the orifice of the matrix, but the rest of the body crooked, and sometimes overthwart: and sometimes the infant pitcheth his head, either in the former part from the orifice, or backward, or comes crooked; and sometimes also it is without any tye, as to the bottom of the matrix, and sometimes with it; sometimes also it puts forth one hand, or both, so as that they are twisted above the head: sometimes it cometh forward, with its feet

Of the several postures of birth, &c. 51

feet asunder, and those fixed in the parts of the womb; sometimes the feet being doubled, it endeavours to come forth with the knees forward; sometimes it is so doubled, that it shews forth its little buttocks like one that is sitting; or contrarily may be so doubled, that you may find the soles of the feet joyned to the head in the orifice of the matrix; but those that lye o'rethwart, sometimes lye on one side, and sometimes with the face upwards; and sometimes downwards. But if there be twins, then that which presenteth it self fairest, must be laid hold on, and the other put back. As to all which, the next following Sections will not only furnish you with figures, but with directions. Hitherto having described the Midwife and her office, together with the site of the infant in the womb, as natural; together with difficult births in general, and their causes. It is reasonable, (good Mrs. *Entrapelia*) that we discourse of unnatural births, because those bring the greatest danger with them, both to the mother and infant.

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E 4

SECT.

SECT. X.

*Figure the first.**Of unnatural Births.*

DR. Courteous Mrs. *Eutrapelia*, If you perceive a child come with its feet forwards, and the hands drawn downwards to the thighs, according to the next ensuing form, How will you deliver the woman?

SECT.



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Mid. In this, I will take care to be furnished with Oyles, and convenient liniments, and only to help the coming forth of the infant, by anointing and cherishing it, lest it go back again, but that it may come forth the same way as it began. But first of all I shall take care, that both arms of the infant so stretched downwards, be so secured by me,

E 3

that

94 *The first unnatural Birth cured.*

that the infant may not have power to draw them back again, but that I may compel it to come forth, after the very same manner: But if the infant breaking forth after this manner, and by reason of its bigness as well as his arms drawn down, be so streightned by the narrowness of the matrix, that of it self it cannot wholly come to the birth; then the womb of the woman is to be anointed with oyl of Lillies, or sweet Almonds, or hogs grease, & some sneezing Powder, blowed up he nose, to help the sending forth of the birth; and the womb gently to be compressed with both hands, that it tend not upwards, but downwards, as it ought, until it come forth entirely.

Here most Authors advise to change the Figure and place the head so that it may present it self first to the birth; which is very difficult and almost altogether impossible to be performed; if we desire to avoid the dangers that by such violent endeavours both the Mother and the Child must inevitably be put into; and I wish they would have shown us any way how it might be safely acted; that we might have followed their examples wherefore 'tis better to draw it forth by the feet, then to venture a worse accident by turning it.

Now to perform this the Midwife must have her Nails well pared and no rings on her fingers,

The first unnatural birth cured. 31

fingers, but her hands well anointed with Oyl or fresh Butter; then the woman being seated to the best advantage let her gently put her hand into the entry of the Womb, which if it be not wide enough let her open it a little and little by degrees, with her fingers by spreading them one from the other after they are entred together, so continuing to do till it be sufficiently enlarged, then finding the Child's feet let her draw it forth in this posture following; but if there shall but one foot present it self, then she shall consider whether it be the right or the left, and in what fashion it comes; for these reflections will be a means to inform her, on what side the other may be, which as soon as she knows let her seek for it, and then gently draw it forth together with the first; and then also let her be very careful and well assured that this 2^d be not the foot of another Child; for if it should chance to prove so, she may sooner split both Mother and Children then draw them forth: the which she may easily prevent it by sliding her hand up the first leg and thigh to the twist, she find both thighs joined together, and depending from one and the same body; and which is likewise without doubt the best means to find the other foot, when it comes but with one.

Being then secured of both the Childs feet, she may draw them forth, and holding them together, she may bring them by little and little in this manner, by taking hold of the Legs and Thighs afterwards, as soon as she can come at them and drawing them so till the hips be come forth: in the mean time let her observe to wrap the parts in a single napkin, to the intent that her hands being already greasy slip or slide nor from the Infants body, which is very slippery, because of the slimy humors which are all over it; and hinder her from taking fast hold of it; which being done she may on both sides, with her hand, bring away the arms, being careful that the Belly and Face be downwards; lest being upwards the Head be stoppt by the chin over the share-bone; so that if it be not so she must turn it to that posture; which is easily done if by taking hold of the body, when the breast and arms are forth, she shall draw it with turning it in proportion, on that side it most inclines to, till it be as it should be, that is with the Face downwards, and having brought it to the shoulders, let her lose no time, (desiring the Women at the same instant to bear down) that so in drawing, the head at that very moment may take its places and not be stoppt in its passage.

There

There are indeed some Children that have their Head so big, that when the whole body is born, yet that stops in the passage, notwithstanding all the care that can be used to prevent it; in this case the Midwife must not only endeavour to draw forth the Child by the shoulders, least she sometimes separates the body from the Head, but she must disengage it by little and little, from the bones in the passage, with the fingers of each hand, sliding on each side opposite the one to the other, sometimes above and sometimes under until the work be ended; endeavouring to dispatch it as soon as possible, least the Child be cloaked or stifled; as it will certainly be if it remain long in that posture; which being artificially and well effected; she may soon after fetch away the after-birth.

SECT.

SECT. XI.

Figure the Second.

DR. But, tell me, I pray, Mrs. *Entrapelia*,
 What if an infant come with the feet
 forward, and the hands lifted above the head,
 and not drawn downwards to the thighs, (as
 in the follwing figure) what course will you
 take with most safety.

Mid.



59

Mid. Sir, I am not at all to receive it so lying, except the Infant be very small and little, and the Womb so extensive, and open; that it may be hoped a safe delivery, both to the Woman and to the Child; neither must I receive it before the Womb and the Infant be diligently anointed. But it were much better to thrust back the Infant into the Womb, and to turn it to the right form, which

60 *The second unnatural Birth cured.*

which may be done after this manner. Let the woman lye on her back upon a bed, with her buttocks raised higher, and her head lower; which done, I must swathe her belly upward gently, that I may drive back the Infant again into the Womb, by which means it may give an occasion of coming in another form; but above all, I must take care to turn the face of the Infant toward the back of the Mother, and then I must lift up the buttocks and thighs of the Infant toward the Navil of the Mother, that it may hasten toward a lawful birth: and there cannot be a safer experiment in this case, (as I conceive) which is also most useful in such births as come unnaturally.

Dr. Those Authors indeed Mrs. that have written of labors and never practised them as many Physitians and Chirurgions have done, do order all by the same precept often repeated, that is to reduce all unnatural and wrong births to a natural and right posture; which is to turn it that it may come with the Head first; but as I have said before, if they themselves had ever had the least experience, they would have known that it is very often impossible, at least, if they shall attempt to do it by the excess of violence, that must necessarily be offer'd to effect it; it will go near to hazard the destruction both of Mother and Child,

The second unnatural Birth cured. 61

Child, in the operation. A *fat* in this case is soon said, but not so easily executed as pronounced; and for my part I am of a clear contrary opinion to theirs, and such as are skilful in the art, will certainly acquiesce with me in this, that is, that whensoever the Infant comes wrong in what posture soever from the shoulders to the feet, it is the best and safest way and soonest perform'd to draw it forth by the Feet; diligently searching for them as is before directed if they do not present themselves, rather then to make an attempt to put it into a natural posture, and place the head foremost; for the great endeavors often necessary to be used in turning the Infant in the Womb, (which is a little more difficult business then to turn a pancake in a Frying-Pan;) do so weaken both Mother and Child, that there remains not afterwards strength enough to commit the operation to work of Nature; and usually the Woman hath no more throws nor pains fit for labor, after she hath been so wrought upon; for which cause it must needs be very tedious and difficult; as also the Infant, which is already very weak, will certainly perish in the passage, without being able to be born.

SECT.

SECT. XII.

Figure the Third.

DR. Now I pray you Mrs. tell me, If the Infant happen to come forth but with one foot, and the arms let down to the sides, but the other foot turned backwards; How will you help?

Mid. In this case worthy Sir what hath been said before, concerning the first Figure, being punctually observed, there will no difficulty at all remain in the operation; only alwaies remembring, when there is occasion, to refresh the Woman in labor with such Medicinal means as may be proper for her in her condition.

SECT.

SECT.

SECT. XIII.

Of the Liver.

Dr. Keil, in his
Anatomy of the
Liver, observes
that the Liver
is the largest
of all the
VISCERA.



63

1771

SECT. XIII.

Figure the Fourth.

DR. If an Infant comes with the Shoulder first, or lye a-crofs on its back, or with its buttocks, with the hands and feet up, how will you help it?



64

Mid.

Mid. The most difficult of these three sorts of figures and situations, in which Infants sometimes come, is that of the shoulders, because it is farthest from the Infant's feet; and the Midwife must find them, to draw it forth; the next is the back, and the breech for the same reason causeth it least trouble; not only because the feet are neerer, but also because by this figure, the Infant's head and neck is not so lock'd as in the other postures.

Now to remedy this birth of the shoulders some advise that it should be put back, to make way for the Infants head, that thereby it may be reduced to a natural birth, but it is much better, for the reasons before alledged, to endeavour to bring it by the Feet; the which dextrously to effect, the Midwife must thrust the shoulder back a little with her hand, that so she may have more liberty to introduce it into the Womb, and sliding it then along the Childs body either by the belly or side, as she shall find it easiest, she shall fetch the feet; and turning it bring them to the passage, and so she shall deliver that Woman as is before directed.

If it be the back that presents to the birth, it is likewise impossible it should be born in in that posture, what pains soever the Mother endures; and besides the child having the body folded inwards, and almost double, its
F breast

breſt and belly are ſo preſs'd together, that it uſually wants very little to be choak'd or ſtifled; to avoid the which dangerous inconvenience, the Midwife muſt quickly ſlide up her hand along the back towards the inferior parts, untill ſhe meets with the feet, to the intent ſhe bring it forth the ſame way as if it came footling.

But when the Child comes with the Breech forward, if it be ſmall, and the Mother big, having the paſſages very large, it may ſometimes, with a little help, be born ſo; for although it comes double, yet its Thighs being folded towards its belly, which is ſoft and gives way, it paſſeth without much trouble.

Now as ſoon as the Midwife finds the Child to come with the Buttocks formoſt ſhe muſt not ſuffer it to engage lower in the paſſage; for it will not come after that manner, unleſs it be very ſmall; and the paſſage very large as we have ſaid; This being then in good time perceived, the Midwife muſt, if ſhe can thruſt back the breech, and ſliding up her hand along the thigh to the legs and feet of the Child, ſhe muſt bring them gently, one after another, forth of the Womb, by folding, ſtretching, wagging, and drawing them gently towards the ſide; being careful not to wind them too much, or cauſe a diſlocation,
and

and then let her draw forth the rest of the body, as if it came with the feet foremost.

I said, Sir that the Midwife, perceiving the Child to come with its breech foremost, ought to put it back, if she can, for sometimes it will be so far advanced, in the passage, that she may sooner destroy both Mother and Child then reduce it to the posture aforesaid; it being once so strongly engaged; when this happens she cannot by any means hinder it from coming in this posture, in which its belly is so pressed, that it often voids its ordure by its Fundament: however she may much help this birth, by sliding up one or 2 fingers of each hand on each side of the buttocks, for to introduce them into the groins; and having crooked them inward, she must draw the breech just out to the thighs, and then by drawing it, and wagging it from side to side, she will disengage them from the passage; as also the feet and legs one after the other, being very careful of putting any part out of joint; and then she may draw forth the rest, as before is taught when it come with its feet foremost.

SECT. XIV.

Figure the Fifth.

DR. Tell me, Mrs, *Eutrapelia*, what if the Infant happen to hasten to the birth with his armes and legs distorted and crooked, according to this figure; How then will you help?



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Mid. As things so stand, Sir, I must not endeavour the birth of the child, but must bring her from the stool to the bed, where I must press back the womb as before-said, or must desire her to roul her self about, till the Infant is turned to a more commodious posture: And if this course prevail not, I must endeavour to joyn both feet together, and, if

F 3

possible

70 *The Fifth unnatural Birth.*

possible, must bring down the hands so to the sides, that I may direct it to the birth. But the safest and best way in my weak judgement Sr. must needs be that which you have taught me in the foregoing births.

SECT.

SECT. XV.

Figure the Sixth.

DR. Tell me, Midwife what if the Infant fall down with both the knees bent, and the hands hanging down to the thighs; How will you go to work?

Mid. Here, Sr. when an Infant (not being turned, towards the latter months, as it ought, to come with its head foremost) presents its self with the knees to the birth, having its legs folded towards its buttocks, one may easily be deceived touching one of them, because of their hardness and roundness, and take it for its head; especially when being seated a little high, it can be reached but with the end of a finger only, but if it be touched and handled a little better, the Infant being fallen a little lower it will be easily distinguished.

As soon therefore Sr. as such birth is perceived, I must not suffer it to advance farther in such a posture, but having placed the woman, must gently put back the child's knees to the intent that I may have the more liberty

to unfold the legs one after another, the which dextrously to effect, I must put one or two of my fingers under the child's haais directing them by little and little all along behind the leg until I meet with the foot and drawing alwayes a little obliquely, for to come the easier to the end of it, that so having disengaged one, I may do the same to the other, proceeding after the same manner as with the first, after which having brought them together, I must finish the work, as when a child comes with its feet foremost, and hands downwards to the thighs.

SECT.



SECT. XVI.

Figure the Seventh.

DR. But, Mrs. *Eutrapelia*, what if the Infant come out hastily with one hand, and the other hand down towards the side, and the feet stretched out streight into the womb, according to this figure; How will you receive it.



Mid. May it please you, Sir, I am not at all to receive it so, nor to suffer it to proceed farther toward the birth; but must bring her to the bed, where her head must lye lower than her buttocks; then I must swathe her belly gently, that the Infant may fall back again into the womb: but if it fall not back of its own accord, I must put in my hand, and press back the shoulders, and must reduce the the arm that hanged out to the side, that it may be disposed of to a natural from in the Womb, and so may come forth easily.

Dr. Very well Mrs. *Eutrapelia*, this is your way; but now give me leave I pray you to give you my method in this case; when an Infant therefore presents only one or both hands to the birth, or an arme sometimes out to the Elbow, and many times to the shoulder, it is of the worst and most dangerous postures a child can come in, as well for its self as its mother; by reason of the violence the midwife is forced to use both to the one and the other, in searching for the feet, which are very far off, by which I would always, in these cases, have it turn'd and drawn forth; the which to do will often make the midwife sweat in the midst of winter, because of the difficulty in this labor more then all the rest, though some other of them are indeed more dangerous for the Infant, as when it presents the

the belly, and the Navil string comes forth, but it is not so painful for the Midwife, because the feet of the Infant, being near the passage, are not so hard to be found, as when it comes with a hand forward, for then they are high, and at the very bottom sometimes of the womb; where the midwife must seek them to turn it and draw it forth as I shall now direct.

When therefore it presents with one hand only, or a whole arm first it must by no means be pulled forth by that part, for it will be sooner separated and rent from the body then so brought forth; by reason a child is pluck'd obliquely and a cross-way; wherefore having placed the woman as is requisite, the midwife must put back the Infants hand or arm, into the womb again: some Midwives dip in cold water, or wash it with a wet cloth, saying that the Infant will presently draw it in, if it be living; but it is usually so prest and ingag'd in the passage, that this bad posture, that it hath not liberty enough to draw back its hands so easily, being once come forth; wherefore the midwife must guide them back with her own, which she must afterwards slide into the womb, under the child's brest and belly so far till she finds the feet, which she must gently pull towards her, to turn it and draw it forth by them as before

before I directed; always remembering to act with as little violence as may be, which is much more easy, sure and safe then to busy ones self in putting it to a natural situation.

As soon therefore as she hath turn'd the child to the feet, if she hath hold but of one, she must search for the other, that so she may bring it to the first, when holding them both she must govern herself afterwards in bringing the child into the World, as we directed you before when the child comes with its feet foremost.

But if the Arm be far advanced almost to the shoulder, and so big and sweld as it will be if it be along while forth, that it cannot at all, or with out great difficulty be put back, then she herself, or a Chirurgion being immediately sent for, if the child be certainly dead, must twist the arm twice or thrice about, till it be wholly seperated from the body, which it will easily be by reason of its tenderness, and that just in the joint of the shoulder with the shoulder blade; but be sure the child be dead; elce what an horrible spectacle will it be to bring, as some have done, a poor child yet living into the World after the arm hath been cut off?

SECT. XVII.

Figure the Eighth.

DR. But, Mrs, Suppose the Infant come forth with both hands stretched forth above the head, and the feet streight stretched into the Womb, which is here figured and is much more dangerous than the former?



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Mid.

Mid. 'Tis true, Sir, this posture is much more dangerous than the former; but I shall take all the care I can to bring back again this birth into the womb wholly. And first of all, I shall anoint my hands, and the womb of the woman, with oyles for this purpose, (for this requires no small labour) then, if possible, with my other hand shall drive it back so by the shoulders, that it may wholly fall back into the womb: And again, lest the Infant should return to the same form of birth, I must put in my hands, and bring down the arms of the Infant to the sides, and by that means bring it to the form of a natural birth. If this course take not, I must bring the woman to bed, where, after she hath lain quiet a while, I must proceed after the same manner as I have before delivered: and if this also be to no purpose, and that it neither be changed to another form, she must be brought to the stool; and the womb, by the help of the women that are assistants, must be depressed on both sides, and downwards: And (my hands being annointed as before said, together with the Womb, and both the arms as they come) I must do what I can to joyn them together, and so receive it as it comes forth. And in this birth, there is the less danger, if that I or any other Midwife do our duties with all possible

ble diligence, and in case the Infant be not too weak.

Dr. Very well Mrs. your way, but I take mine which I mentioned in the former Section to be the safer of the two, but you may use which you think best.

SECT

SECT. XVIII.

Figure the Ninth.

DR. But I pray you, Mrs. *Entrap*. How will you deliver a woman of a child that falls down with its buttocks forwards, and the hands spread over the head, according to this figure.



Mid. Here, Sir, I must annoint my hands as above-said, and putting it up, must lift up the fundament of the child, and turn the head to the Birth. But, in this case I must not make too much haste, lest it fall into a worser form; neither is it possible that a child should be so born, without great loss to the Mother and Infant; therefore, if it cannot be turned with the hand, she must be brought to the bed, where, if she be very weak, she may be refreshed with convenient meats and cordials, and then often proceeded with as is said before, until the Infant shall come to a more commodious form of birth.

Dr. Your observations and apprehensions of danger in this operation are very good; so that when the next opportunity presents you will find my former directions to be best and safest.

SECT.

SECT. XIX.

Figure the Tenth.

DR. But sometimes (Mrs.) it happens that it offers it self with its shoulders forwards, and the head turned backwards, but the feet and hands lifted up, as in the ensuing figure; How will you help here?



Mid. In this case, Sir ; I must in the first place move backward the shoulders of the Infant, that it may first appear with the head forward ; and this may easily be done, because the shoulders being but a little up, the head of it self will fall down to the orifice of the womb, as being nearest to it. But if there must be any other way attempted, she must be brought back to the bed, and then so stirred and rouled, and used according to those directions formerly hinted.

SECT.

SECT. XX.

Figure the Eleventh.

DR. Mrs, I fear I trouble you with many Questions; be pleased to satisfy me in this, and four or five more, and I shall forbear. What then if the Infant incline to the birth with the hands and feet together, as if it stood upon all four, with the back upward into the womb; (as in this figure) What, I say, will you do?



G 3

Mid.

86 *The Eleventh unnatural birth*

Mid. Here, Sir, I must take care, lest some danger happen from this difficult and unhapely figure; therefore I must do thus. I must so move the feet of the Infant, that I may handle the head, and do what I can to direct that first to the birth: I must also move up the arms, lest of their own accord they fall down to the sides of the womb. And if this way succeed not, she must be brought back to the bed, and the same means used for the turning of the Infant as hath been formerly described.



SECT.

SECT. XXI.

Figure the Twelfth.

DR. Sometimes, Mrs. it falls out, that (contrary to the former shape) the Infant falls down upon its breast, with the hands and feet cast backward into the Womb, as in this figure; what will you do in such a condition?



F 87

G 4

Mid.

88 *The Twelfth unnatural Birth.*

Mid. Truly, this case is the most dangerous of all hitherto proposed. First, therefore, I must carefully annoint both my hands, and also the womb of the woman; which done, I must feel for the arms of the Infant, and lay hold of them so, till I can lay hold of the head also, and with all care hold it so fast, that I may direct the head first to the birth; next I must dispose of them to the sides; for this done, the birth will come forth the sooner, and with less danger; but if this succeed not, it will be safest to bring the woman to the bed, and to proceed as formerly shewed; that, if perhaps, by this kind of delay, the Infant may accommodate it self to a more fit posture for the birth.

SECT.

SECT. XXII.

Of a birth wherein the Infant presents the belly.

DR. In the next place Mrs. Midwife, let me hear from you how you will help a woman in labour of a child when it presents its belly first?

Mid. That you shall Sr. very willingly to the utmost of my skill.

And here Sr. I must note that the back-bone may easily be bent and turned forwards a little, but by no means backwards without excessive violence. Wherefore the worst and most dangerous figure that a child can offer to the birth, is the belly, or the breast, for then its body is constrained to bend backwards, and what ever throws or endeavours a woman makes to bring it forth it will never be accomplish'd; for she will sooner perish with her child then ever advance it in this posture into the passage, wherefore 'tis in great danger if not timely succourd; and in case it should escape, which would be very strange, it would be weak in the back along time after its birth: but that which augments

ments the danger much more is that for the most part the Navil-string comes forth when the Child comes with the belly ; Therefore as soon as 'tis discover'd to be so, the Midwife must use the sole remedy of drawing it forth by the feet, as speedily as may be, in this following manner.

Having placed the woman I must gently slide up my flat hand, being well anointed for the easier entrance, towards the middle of the Childs breast, which I must thrust back to turn it, this situation being already half turn'd, the feet being as neer to the passage as the head, when it represents the middle of the belly ; then I must slip up my hand under the belly till I find the feet, which I must bring to the passage, to draw it forth in the same manner, as if it came with the feet foremost ; being very careful to keep the Face downwards which must alwaies be observed before the head can be drawn forth, for the reasons before given which must never be forgotten.

And here likewise is to be noted that the Midwife must alwaies proceed after one and the same manner in the deliveries when a Child comes with the breast, or belly.

But on the other hand I would have it remark'd, that when at any time an Infant comes with its side, it is impossible to be delivered

livered as the two former; but yet it is not so much tormented, nor is its situation so cruel; for it may remain in it a longer time without dying, than in the two former, wherein it is much more as it were upon the rack than in this, in which posture the body may be bended forwards, and not backwards, as in the other; but the Navil string doth not come forth so easily, as when it comes with the belly first. And in this as in the other 2 births, the Midwife will find it the safest way to draw it forth by the feet; by pushing back a little the Infants body with her hand, the better to introduce it, which she may slide along its thighs till she find the legs and feet by which she must turn it, and afterwards draw it forth, as I said even now: nor ought she to amuse her self, in any of these 3 births, to place its head right, that it may come naturally, because 'tis in great danger of dying in these unnatural positions, if not drawn forth with speed, which can never be effected unless it be by finding the feet, as I have directed.

SECT.

SECT. XXIII.

*How to help a Woman in her Labor,
when the Childs head thrusts the
neck of the Womb forth before it.*

DR. Now Mrs. *Entrapelia*, I have another question to ask you, and that is this; suppose you were call'd to deliver a Woman in labor where you find the Childs head to thrust forth the neck of the Womb before it, how would you go to work in such a case, and what art would you use to deliver the Child with safety?

Mid. Why surely Sir, if we only have respect to the Figure the Child comes in in this labor, we may call it a natural one; but if we shall, on the other hand, consider either the disposition of the Womb, which is in danger of coming quite forth of the passage, or the manner of drawing forth of the Infant, we shall find it to be not so altogether: for its head thrusting it forceably before it may easily cause a falling out of the Womb, if the Woman be not skilfully sutcoured in time, here may be seen the neck of the Womb
bear

bear forth before in great wrinkles according as the Child advanceth.

Now Women troubled with their bearing down of their Womb before they conceive, and those whose Womb is very moist, are much subject to this accident, because of the looseness of the strings.

The same method must not be observed here, as in the natural birth ; for in this case the Woman must neither walk nor stand upright ; but she must keep her bed with her body equally at least situated, and not raised a little as is requisite in a natural labor. She must by no means use strong or sharp clysters, lest they procure too great throws, neither must her Womb be moistned, because 'tis already too much loosened ; but she must be aided at the moment each pain takes her, when the Child begins to advance its head, and consequently the neck of the Womb, and let the Midwife keep her hands on each side of its head, to thrust back by resisting the Womans pains, the Womb only giving way in the mean time for the Child to advance, doing the like at every throw ; continuing therein till the Woman of her self hath forced the Child quite into the World, for we must by no means draw it by the head, as in a natural labor, for fear of causing the Womb to fall out at the same time, to which it is then very apt.

Now

Now if notwithstanding the Infant having the head born, and yet stops there, so long as to endanger its suffocation, then the Midwife must call a second person to her assistance, to draw it gently forth by the head, whilst she keeps back the Womb with both her hands, to prevent its following the Infants body so drawn forth. After the Woman is thus delivered, and her Afterbirth fetch'd away gently, and not shaking or drawing it away too rudely, then let the Womb be placed up in its natural situation if it bears down.

SECT.

SECT. XXIV.

How to deliver a Woman when the Child presents the side of the Head, to the birth, or its Face.

DR. Good Mrs. *Eutrapelia*, I do very well approve of this your answer to my last quere; now in the next place I would know of you how you would bring a Woman to bed when the Child shall present it self with the side of its Head first, or its Face.

Mid. When the child Sir presents it self in this posture, as with the side of the head though it seems a natural labor, because the head comes first, yet 'tis very dangerous both to child and mother, for the child shall sooner break its neck than ever be born in this fashion, and by how much the mothers pains continue to bear it which is impossible unless the head be first right plac'd, the more the passages are stopt up.

Therefore as soon as 'tis known the woman must be lay'd with all speed, lest the child advancing farther in this vicious posture, it prove more difficult to thrust it back; which
must

must be done when we would place the head right in the passage as it truly and naturally should be.

Now to effect this I must place the woman that her hips be a little higher than her head and shoulders, causing her to lean a little upon the opposite side to the child's ill posture; then I must slide up my hand being well anointed with oil, by the side of the child's head, for to bring it right gently with my fingers between the head and the womb: but if the head be so engaged that it cannot be easily done that way, I must then put my hand up to its shoulders, that so by thrusting them back in the womb, sometimes on the one side, and sometimes on the other, as I see occasion, so shall I give it a natural and convenient position.

And here it were to be wished that the midwife could put back the Infant by the shoulders with both her hands in this manner; but the head doth take up so much room that she hath much ado to introduce one only with which she must do her operation, with the half of the fingers ends of the other hand put up as far as necessary, afterwards let her excite and procure the child's birth, as directed before.

Then sometimes the child comes with its face first, having its head turn'd back; in
which



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which posture it is very difficult it should be born; and if it long remain so, the face will be so black and blew, and swell'd that at first sight it will appear monstrous, which comes as well by the compression of it in that place as by the Midwives fingers handling it too rudely, when she endeavor'd to place it in a better posture.

There was a certain Woman whose Child came with its Face so black and misshapen as soon as it was born, as is usual in such cases, that it looked like a black Moor; as soon as the Mother saw it, she said she alwaies fear'd her Child would be so monstrous, because when she was young with Child of it she fixt her looks very much upon a black moor, wherefore she wish'd or at least wish'd not though it dyed, rather than she said she should behold a Child so monstrously disfigured, as it then appear'd; but she soon chang'd her mind when she was made sensible, that this blackness was occasion'd only by reason that it came into the World with its face forwards, and that assuredly in three or four days it would wear away; as accordingly it happen'd; having often anointed it with oyl of sweet Almonds, as she was order'd; and when the Child came to be about a 12 month old, you could have scarcely seen a fairer. Now to deliver this birth the Midwife must

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observe

observe the same manner, as in that where the Child comes with the side of the head, being careful to work gently to avoid bruising the Face.

But here note that if it should chance that the Childs hand or hands should come with either of these births, which for the most part happens, rather than any other part, it will hinder the birth by reason it takes up part of the passage, and for the most part cause the head to lean on one side.

To remedy this as soon as 'tis perceived that one hand presents together with the head, it must be prevented from coming down more, or ingaging farther in the passage: wherefore the Midwife having plac'd the Woman on the bed, with her head a little lower than her hips, must in the next place, put and guide back the Childs head with her own, as much as may be; or both hands if they came both down for to give way to the Childs head, which done she must proceed as before.

SECT.

SECT. XXV.

How to deliver a Woman when the Childs Head is born, and the Womb closeth about its Neck.

DR. Very well Mrs. *Entrapelia*, you have now given us a farther account of your very good judgment in your Art, in your dextrous & ingenious way of bringing a Woman to bed in the last posture. But now I would desire you to let me know how you will deliver a Woman of her Child, when its head is born, but yet the Womb closeth about its Neck.

Mid. Truly Sir to deliver this Woman is not so easie a business as may be imagin'd, by reason that a small delay herein may cause the strangling of the Child.

And here you must observe that the Child comes naturally with the Head first, because by its bigness and hardness the passage might be the better made and opened, for the other parts of the body; the which usually pass afterwards without pain; but yet notwithstanding sometimes the Head is so small and

the shoulders so large, that without a very great difficulty they cannot pass, which makes the Child remain often in the passage after the head is born. And this accident may likewise happen sometimes for not having been careful to lose no time in drawing forth the Child by the head, to the end the shoulders might, at the same instant, follow in the same place the head posset.

Now when I meet with this Figure, I must by all possible means seek speedily to deliver the poor Child out of this prison, or rather snare, or collar in which it is caught, for fear as I said before, it come by delay to be strangl'd: to prevent which I must endeavour to cause the shoulders immediately to follow by gently drawing its Head, sometimes by the sides of it, and sometimes with one hand under the chin, and the other behind its head, and so doing by turns, on the one side and the other, to facilitate the operation the better, being very careful and circumspect that the Navil-string be not entangled about its Neck; as also not to draw it forth with too much violence, for fear least it may happen, as I once saw, the Head to be pulled from the Shoulders. But if the Shoulders come not with gentle pulling, then I must slide up my fingers on both sides under the Arm-pits, with which turning them in-
the

wards, I may by little and little, draw forth the Soulders; but if when they are in the passage and totally disengag'd, if I cannot get the rest forth by still keeping my fingers under the Arm-pits, I may be very confident there is some other hindrance, and that it is certainly monstrous in some part of its body; or that, as it for the most part happens in this case, it is hydropical in the belly; for which cause it is impossible it should be born, before the belly be pierced to evacuate the waters; and then it will easily be accomplish'd; but this being the expert Physician or Chirurgeon's parts to perform, I shall leave it wholly to them,

SECT. XXVI.

When the Navil-string comes first.

DR. Now Mrs. *Entrapelia*, I would know of you how you behave your self when you have a labor presented to you wherein the Childs Navil-string comes first?

Mid. Here Sir you must note, That an Infant doth not always present with the belly when the navil-string comes first; for though it presents naturally as to the Figure of its body, that is with its Head first, yet sometimes the Navil-string falls down and comes before it; for which cause the Child is in much danger of death, especially if the labor be not very quick, because the blood that ought to pass and repass, through those Vessels which compose it, for to nourish and keep the Child alive, whilst it continues in the Womb, being coagulated hinders the circulation which ought to be there made, which happens as well by the contusion, as the cold those Vessels receive, being much pressed in the passage when it comes together with the Head, or any other part; as also because the blood doth there coagulate as is said, by reason

son of the cold which it takes by the coming forth of the Navil-string.

But though this accident may cause the Infants sudden death, 'tis not so much for lack of nourishment; without which it may pass a whole day or more, there being blood enough in its body for that purpose: but because the blood can be no longer enliven'd and renewed by circulation, as it hath continual need; which being obstructed always causeth the creatures sudden death, sooner or later according as it is more or less obstructed.

I know it may be objected that though the circulation be so hindred and intercepted by the coming forth of the string it need not therefore cause such a sudden death to the Child, because the blood may notwithstanding circulate in all the other parts of the body: To which I answer that in respect to the Infant 'tis either absolutely necessary that the blood, for want of respiration, should be elaborated or prepared, in the thick part of the burthen call'd the *placenta*, and therefore must be a free communication, or for want of it that the Infant must immediately breathe at the mouth, as well to be refreshed, as to drive out the fuliginous or footy Vapors by expiration, which not being possible whilst in the Womb, it must unavoidably be

choaked, and dye in a very short time, if it wants both together.

Wherefore in this case the Woman must, without any delay, be deliver'd, the which if nature doth not speedily perform, the Child must be drawn forth by its feet.

Women that have great waters and along string to the burthen, are very subject to this mischief; for the waters coming forth in great abundance at the breaking of the skins, or membranes, do often at that instant, draw the string which swims in the midst, forth along with them; and much the easier if the Infants head be not advanced very forward into the passage, for to hinder the coming forth of it in this manner.

As soon as 'tis perceived yon must immediately endeavor to put it back, to prevent the cooling of it, behind the Childs head, least it be bruised, as we have already noted, whereby the blood may coagulate there keeping it in that place where it was thrust back, until the head being fully come forth into the passage may hinder the coming down of it again; which may be effected by holding it up with the fingers of one hand, on that side it comes down, untill the head be advanced as aforesaid; or in case the hand be taken away to put a piece of fine soft rag between the side of the head and the Womb, to stop up the
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the way it came down by, always leaving an end of the rag without the body to draw it forth by at pleasure.

But sometimes notwithstanding all these cautions and the putting of it back, it will for all that come forth every pain; and then without any more delays at all the Midwife must bring the Child forth by the Feet, which she must make a diligent search and enquiry after, although the Infant comes with the head foremost; for there is but this only means left remaining to save the Childs life, which it would certainly lose by the least delay in such a case.

Wherefore having placed the Woman conveniently, let her gently put back the Head which offers, provided it be not engaged too low amongst the bones of the passage, and that it may be done without too great violence to the Woman; for in that case it will be better to let the Child run the hazard of dying, than to destroy the Mother; for *Tertullian*, as my learned *Mr. Riolanus* very well observes, upon a like Subject, saith *That it is a necessary cruelty, to kill the Child in such a case, rather then to save it from the danger it is in of dying, and so certainly cause the Mothers death*; and then let her slide up her hand, being well anointed, under the breast and belly to search for the Feet, by which she must

must draw it forth according as hath been formerly discoursed; the which being perform'd let her immediately take care, of the Infant, which is ever in this case very feeble.

SECT.

SECT. XXVII.

*Wherein the Burthen either first offers
it self or comes first quite forth.*

DR. Very well, and excellently have you given us demonstrations of your skill and knowledge hitherto, good Mrs. *Entrepelia*, now pray will you inform me how you act your part in a Labor wherein the burthen either first offers, or else comes first quite forth.

Mid. That I shall Sir to the best of my Talent and therefore first of all Sir I must note that the coming forth of the Navil-string before the Infant, whereof we discoursed in our foregoing Section, is oftentimes the cause of its death, for the reason there alleadged; but the coming forth of the burthen first, is yet much more dangerous; for that besides that the Children are then commonly Stil-born, if they be not assisted in the very instant, the Mother likewise is in great peril of her life also, because of her great hoodings, which usually happen, when it is loosened from the Womb before its due time;

time ; by reason that it leaves all the orifices of the Vessels, to which it did cleave, open, whence incessantly flows blood until the Child be born ; by reason that the Womb, as long as any thing continues there, doth every moment strongly endeavour to expell it, by which means it continually voids and expelleth the blood of the Vessels, which are alwaies open (as we have already explained) when the burthen is so separated ; as long as the Womb remains extended and cannot be closed, until it hath voided all that it did contain, and comes, by the contraction of its Membranous substance, to stop them by pressing them together ; wherefore if the Midwife ought to be vigilant and diligent to succour an Infant when the Navil-string comes first, how much more ought she to be so when burthen comes forth first, and wherein the least delay is ever the cause of the Infants sudden death, if the Woman be not speedily delivered ? because the Infant cannot then remain long in the Womb without being choaked or stifled, being it stands in need at that time of breathing at the mouth, (as we explain'd the foregoing discourse,) the blood being no longer enlivened by the preparation made in the burthen, the use and function of which then ceasing, from that very instant that it is separated from the Vessels of the Womb,

Womb, to which it was joined; for which reason there immediately follows a great fludding which is so dangerous for the Mother, that without speedy help, she quickly looseth her life by this unlucky accident.

Now when the Burthen is not wholly come forth but lies in the passage, some advise to put it back before the Child be fetch'd; but I am not of their opinion; for when it comes into the passage before the Infant; it is at that time totally divided from the Womb, at the bottom whereof it ought to be commonly situated and fastened, until the Child be born: but because soon as it is wholly loosened, as it always is when it comes first, it becomes a body altogether unnatural; therefore it is never to be thrust back, but contrarywise be fetch'd away, and at that very moment after bring the Child away by the Feet, although it came naturally with the Head first: for what reason can there be to put it back, since it is of no use to the Infant, from the moment it is separated from the Womb, as cannot be denied? And such a proceeding is so far from being useful, that this burthen would much hinder the Midwife from being able to turn the Child; as she ought, in bringing it forth by the Feet.

Where-

Wherefore when it presents it self in the passage, which may soon be perceived if the Midwife find every where a soft substance, without the least resistance of any solid part to the touch; and finding likewise the string fastned to the middle of it, and the Woman finding extremely as is ordinary at such times; then in lieu of thrusting it back, the burthen must be brought away, that so there may be the more liberty and room to draw forth the Child, according as hath been before directed.

The Burthen then being quite loose ned from the womb, and coming first in the passage must not be thrust back again into it, much less must it be put back when it is quite come forth of the body. The midwife must only take care not to cut the string till the child be born, not out of hopes of any benefit from it to the Infant during the delivery, but that so much time may not be lost before the Infant be fetch away, which is then ever in great danger, as also the flooding may be the sooner stoppt, which happens for the most part as soon as the woman is delivered, for which reasons it will be dispatched with all possible speed.

Sometimes notwithstanding this dangerous accident the child may be born alive, if timely succoured, but it is then so weak that it is hard

hard to discover at first, whether it be alive or dead.

When it so happens some midwives do ordinarily, before they separate the burthen, put it into a Skillet of hot wine, and imagine, with no small superstition, that in case it comes to it self, the vapours of the warm wine was the cause of it, being conveyed by means of the string into the Infants belly, and so giving vigor; but it is more credible that being almost stifled for want of breathing as it needed it, it begins now, by means of it, to recover from that fainting: but nevertheless there may be no hurt in continuing the old custom, since it can do no prejudice, and may satisfy fine occupied Spirits, provided necessities be not neglected, in being blindly carried away with this conceit.

SECT.

SECT. XXVIII.

Figure the Thirteenth.

DR. There being the same reason in twins as in a single birth, except that the single birth is natural, and the twins not so, certainly the same method must be observed (Mrs.) Tell me then, if there be two or more, and all come fair with their heads toward the birth, What is to be done?

Mid.



Mid. Here, Sir, I must observe that which lyeth readiest and fittest in the Womb, and first receive that, and not to let the other go till the first is born, lest it turn into another shape by sliding back again into the Womb; but the one being born, I must presently lay hold on the other. Now, this birth will be easier, and without danger, because the first birth hath made the way for the second so plain, that it may come forth without any difficulty

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difficulty at all. But in this birth I must take care that I bring forth the after-burden timely enough, lest that the Womb, being freed from her Infants, presently fall down, and so keep in the after-burden with great danger.

SECT.

SECT. XXIX.

Figure the Fourteenth.

DR. But, Mrs. What if there be Twins, and they both come unnaturally with their Feet forward, as in this Figure; what course will you take?



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Mid.

Mid. This birth, Sir, is dangerous enough, and yet it is to be mended by the prudence of a discreet Midwife. Wherefore, I must anoint the womb of the woman, that the passages may be the easier for the Infant ; which being done, I must take care to lay hold of the arms of one of them, and bringing them down to the sides, secure them so, that I may lightly promote the head to the birth ; and the first being born, I must presently proceed with the other after the same manner : but if I can lay hold of neither of their arms, so that there is no good hopes of a happy birth, I must have recourse to the former method ; if at least the Infants may come into the World by that pains and conversion which is wrought upon the bed.

SECT.

SECT. XXX.

Figure the Fifteenth.

DR. I come now to my last unnatural birth of Twins. If then there be Twins, (these forms being compound as of a natural and unnatural birth) the one coming down with the Feet, what is to be done in this case?

 SECT.



Mid. Where Infants offer themselves after this manner; I must first bring forth that which presents it self with a natural form, and must move up the other which is with the Feet forward, and if possible, cause it so to return into the Womb, that that form also may be disposed of to a natural birth; but if it cannot be turned to be in a better posture, I must lay hold presently on the hands, and encourage it to the birth. But it were safer that this should be brought to a natural form;

form; to which end I must diligently endeavour it, by anointing, directing, moving it, tumbling and rousing the Woman, lest perhaps the Womb be hurt by the form of such an unnatural birth, and the privities swell with wind, from whence the birth cannot come forth without danger, or be hindered too long: All which danger may with provident care be avoided, or at the least very much corrected and amended.

Dr. So far concerning your way and method of Labors wherein several Children in different postures present themselves together; but now good Mrs. *Entrapelia*, I would have you to hear a little what I have to offer you concerning these deliveries; and first of all be pleased to consider seriously with me, that if all those unnatural Figures and Situations which we have hitherto described, that a single Child may come in do cause those many difficulties, and dangers mentioned, certainly the Labor wherein several come together in those bad Situations must be much more painful, not only to the Mother and Children, but also to the Midwife, for they are then so pressing that for the most part they trouble and hinder one another; moreover the Womb is so filled with them that the Midwife can scarce introduce her hand without much violence, which she must do if they

they are to be turned or thrust back to the end that she may give them a better position then that wherein they present.

Where note then, that when a Woman hath 2 Children they do not ordinarily both present to the birth together, but one is oftentimes more forward then the other, which is the cause why but one is felt, and that 'tis sometimes not discovered that the Woman will have Twins, till going to fetch the after-birth, the first being born, the 2^d is then perceived.

When there are Twins Mrs. *Entrapelia* one must not think that Nature is orderly in causing one to be born before the other, the first or last, according as it may be most convenient, that is to say when the one is strong and the other weak, that the strongest comes first; as also when one is dead and the other living, that the living one drives forth the dead one: for I can assure you there is no certain or infallible rule in these cases; of which I can give you an example; there were once 2 women deliver'd within a week of one another, and both of Twins, the one of each being dead and the other living, the living Child of the first Woman was born before the dead one, and the dead one of the 2^d was expelled before the living one. And the same thing we see happens very often in respect of
strong

strong and weak Children; for that which is nearest the birth whether alive or dead, strong or weak, is always the first born, or must be brought into the World the first, if it cannot come of it self; otherwise the difficulty of the Labor would yet be augmented as well in length of time to the Mother, as the violence done to the first Child, in putting it back, for to fetch the 2^d first.

Now the Midwife must always remember to have a care in all natural births, to examine diligently whether there be no more Children in the Womb after the first is delivered, which she may easily know by the continuance of the pains after the Child is born, and the bigness of the Mothers belly; besides this she may be very sure of it, if she shall put her hand up the entry of the Womb, and shall there find another water a gathering, and a Child in it presenting to the passage; and if this shall be so, the Midwife is not to fetch away the after-birth till the Woman be delivered of all her Children, if she chance to have never so many, because Twins never have but one burthen, to which there are fastened as many strings and distinct Membranes as there are Children, and if one should go to draw it forth as soon as the Birth is born, the rest would be in danger of their lives, because that part is very necessary to them

them whilest they are in the Womb, and besides more then that it endangers a flooding. Wherefore the first string must be cut, being first tyed with three or four double, and the other end must be fastened, with a string to the Womans thigh; not so much for fear that the string should enter again into the Womb, as to prevent the inconvenience it may cause to the Woman by hanging between her thighs; afterwards this Child being removed, the Midwife must take care to deliver her of the rest, observing all the same circumstances as were belonging to the first, the which being done it will be then convenient and necessary to fetch away the After-birth; as we shall discourse the manner how by and by.

SECT.

SECT. XXXI.

Figure the Sixteenth.

DR. Courteous Mrs. *Entrapelia*, I have hitherto troubled you with many Questions, that I might not only be sure of your abilities, but also give testimony of your sufficiency, if need require. I have now only one Question more, and then I have done, as to these postures and fashions: And this, though the last, surely is a miraculous posture. What if the Infant be so involved in the womb (the head and the neck being of such a length) that it is so bent back, that the face lyeth betwixt the buttocks, the right hand to the left region of the reins, but the left hand to the knee of the same side; the right legg being across the left, in form of the letter X, and both leggs bent up toward the breast?

Mid.

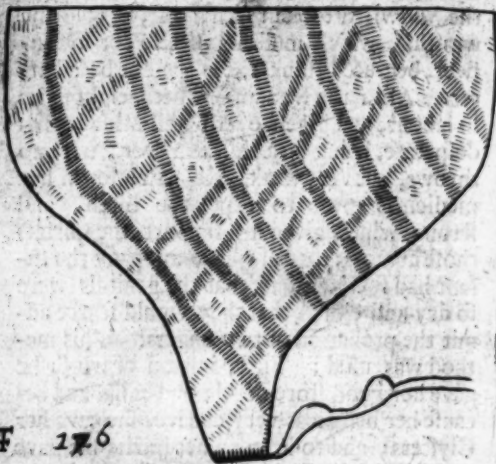


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Mid. Worthy Dr. This case is the hardest of any that hitherto you have propounded to me; and though it may never fall out to be so in one amongst 5000, yet (because, in your description of the best Midwife, you tell me that a Midwife must have a good memory) I remember a learned Doctor, not long since acquainted me with such a posture, which he told he had from the hands of an expert Chirurgeon and Physitian, whose wife also

also was an expert Midwife; and the course the Midwife took in such a case, he told me was this, which must serve also for my answer, because I think there cannot be a better. After the woman had been eight daies in labour, and given over by all Midwives as desperate, being in a violent Fever, with no throws, but very weak, and (by reason of hot medicines given to expel the birth, and strong wines given to support the spirits) those humors, that usually accompany the Infant had so flown out, that the genitals were so dry and closed, that they would scarce admit the probation of two fingers. This method was used: First, instead of wine, she gave her good store of Almond-milk; and because her belly was very costive, she gave her Clysters; and to keep up her spirits she gave her Cordials, (of which in their order.) She laid plaisters to her hands wrists, and anointed the whole region of the belly, hips, loins, the rump-bone, and privities with Oyles to appease her pain and with softning Unguents; and then she made a triangular bagg stuffed with emollient and relaxing herbs, boyled in water, according to this description, (and of which more hereafter.)

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The description of the Bag.

It was of such a bigness, as that it might cover the lower part of the belly, and the privities, and with tapes fitt'd to the corners was apply'd hot, and continued on some hours; after which, though her hand were well anointed, she could scarce thrust in the top of her finger into the orifice of the womb, the womb was so clos'd, and the Infant so depressed toward the share-bone, by reason of the

the precedent throws and pangs. But at length, when with much labour and industry the genitals were somewhat dilated, that she could get in her fingers farther, she found the loyns and the right hand of the child first offer it self to the birth: that therefore she might correct this monstrous and so inverted posture of the Infant so doubled and twisted, and either perswade the head or the feet to come forward, she used the best of her skill, but to little purpose, the genitals were so narrow and streight. But yet not giving off her endeavours, she did deliver her within eight hours after she came to her assistance; but the child was dead.

Dr. Mrs. You give a very good account of an expert Midwives practice, which you may follow with safety, expecting the success from Heaven; but it is no wonder the child should be still-born, (as you phrase it;) for being so turned and doubled, the child must of necessity be strangled in the womb.

Having thus run through births, as well natural as unnatural, I shall give you the reason (and that in my own opinion) why these births are of so various and different postures in the womb, observing not alwaies the same posture: and 'tis because the Infant swimming in water, and moving it self, sometimes this way sometimes that way or mov'd by its mother

ther as you have heard before, is bent and tumbled several waies; insomuch, that sometimes it is strangely entangled with its own navil-cord, which I am confident you have seen in your own experience oftentimes, and shall now in the next place desire you to let me know which way you use to go to work, when a dead Child is to be delivered from its Mother and she alive.

SECT.

SECT. XXXII.

Of delivering of a Woman of a dead Child.

M*Id.* Sir I shall most willingly consent to your demand, as far as I shall be able, in this always so long and dangerous a Labor; which is because for the most part it comes wrong; or though it comes right with the Head, yet the Womans pains are so weak and slow in these cases that she cannot bring it forth, and sometimes she hath none at all, forasmuch as nature, half overthrown by the death of the Child, which cannot help it self, labors so little, that many times it cannot finish the business it hath begun, but must yeild, without the help of art, of which at such a time it hath great need: However before ever I may settle to your work, I'll endeavor to stir up the Womans pains with strong and sharp clysters, to bring on her throws, and to bear down and bring forth the Child; and if these means prevail not she must then be delivered by the help of art.

Now if there be any case wherein a Midwife ought to make the greatest reflection and

use most precaution in her Art it is this, that is to know whether the Infant in the Womb be living or dead; for there have been many deplorable examples of Childrens being drawn forth alive, after they have been thought to have been dead, with both Arms or some other limb lopt off, and others miserably kill'd by the use of crotchets which might have been born alive if they had not been mistaken: wherefore before the Midwife resolves on the manner of laying the Woman, to avoid the like misfortune, and the disgrace of being author of such a pitiful spectacle let her do her utmost endeavour not to be so deceiv'd and to be wholly satisfied whether the Child be alive or dead, always remembring in this case that timidity is more pardonable then temerity, that is, it is better to be deceived in treating a dead Infant, as if in case it were a live, then a living one as if it were dead.

Now besides what hath been said before concerning knowing whether the Child be alive or not; you must not always put your whole confidence, in the first place, in the Womans telling you that the Child is certainly alive because it stirs, and though to be the better assur'd the Midwife may lay her hand on the Mothers belly, for there have been Women sometimes delivered whose
Children

Children had been dead about 4 days, as might be easily judged by their corruption, who notwithstanding have affirmed, though untruly, that they felt them stir but a little before they were delivered; and others again whose Children were alive, and yet their Mothers never perceived them to stir in three or 4 days before, as they confessed:

Now if the Midwife cannot be assured by the Childs motion that it is alive, she may as soon as the waters are broke, gently put up her hand into the Womb, to feel for the breaking of the Navil-string; the which she will find to be stronger, the nearer she feels it to the Infants belly; or if she meets with an hard she may feel the pulse; but their pulses, you must know are not so strong as their Navil-strings, therefore the best to be known by it; if then also by putting her finger into the Childs mouth she perceive it to stir its Tongue, as if it would suck; and on the contrary, if no such signs, and the Mother feel a great weight, and great pains in her belly, and it be not supported but tumbles always on the side she lays her self; if she faints and have Convulsion Fits, if the Navil-string or secundine hath been a good while in the World, and if the Midwife by putting her hand into the Womb, finds the Child cold, and feeling she finds that very soft,

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chiefly towards the crown where likewise the bones are open, and riding one upon the other at the clefts, or Sutures, because the brain shrinks, which corrupts more in 2 days in the Womb, than it doth in 4 after it is born, which is caused by the heat and moistness of the place, the 2 principals of corruption; and if there comes a dark and stinking putrid matter from the Womb; all these signs together, or most of them demonstrate to the ingenious Midwife that the Child is assuredly dead; the which when she is certain of, she must do her endeavor to fetch it away as soon as possibly she can, and having placed the Woman conveniently, if the Child offers its head first, she must gently put it back, until she hath liberty to introduce her hand wholly into the Womb, and sliding it all along under the belly to find the Feet, let her draw it forth by them, being very careful to keep the head from being lock'd in the passage, and that it be not separated from the body, which may easily happen when the Child being very rotten and putrified, she doth not observe the circumstances that we spake of before, that is, in drawing forth the Child, to keep its breast and face always downwards; And if notwithstanding all these precautions, the head, because of the great putrefaction, should be separated and left

left behind in the Womb; it must be left to be drawn forth by the expert Physician or Chyrurgion. The same also is to be said when the Head is so far advanced coming first, and engaged among the bones of the passage, that it cannot be put back, then being very sure by all the signs together or most of the chief of them, that the Child is dead certainly, 'tis better to let the Surgeon draw it so forth, it being a round slippery part, with crotchets, then torment the Woman to put it back. Now if the dead Child (whereof above all there must be good assurance,) comes with its arms up to its shoulders so extremely swelled that the Woman must suffer too much violence to have it put back, 'tis best then, as was said before, to take it off at the shoulder joint, by twisting it 3 or 4 times about; then afterwards the Midwife will have more room to put up her hand into the Womb, the arm being so separated and no longer possessing the Womb, and so fetch away the Child by the Feet.

For indeed although it be certain that the Child be quite dead in the Womb, and other circumstances that will demonstrate that there is need of a Physician or Surgeons Art, yet he must not therefore presently use his crotchets; because they are never to be used but when hands are not sufficient, and that

there is no other remedy to prevent the Womans danger, or to bring away the Child any other way ; for very often, though all hath been done that art directs, some persons present that understand not these things will believe that the Child was kill'd with the crotches although it had been dead 3 days before, and without other reasonings and better understanding of the matter for his recompence, in saving the life of the Mother, requite him, with an accusation of which he is altogether innocent, and in case the Mother should afterwards dye, by misfortune, lay her death also to his charge, and instead of praise and thanks treat him like a Butcher, or Hangman ; to which divers Midwives are commonly very ready to contribute, and are the first that make the poor Women, that have need of the Men, afraid of them. Insomuch that they are afraid of being blamed by them for having themselves been the cause, (as some of them often are) of the death of Infants, and many ill accidents which often befall the poor Women, for not causing them to be helped in due time, and from the very instant that they perceive the difficulty of the labor to pass their understandings. I speak this by way of caution on both sides.

Now therefore for the Physitian or Chirurgion to avoid these calumnies, let him ne-

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ver use his crotchets, but very rarely when there is no other way; as also to endeavor his utmost, as much as the case will permit, to bring the Child whole into the World although it be dead, and not by bits and peice-meals, to give the ignorant not any pretence of blame; I say as much as the case will permit, that is, with respect to the Woman under his hands; for to save her he had better sometimes to bring forth the Child with Instruments, then to kill her, by tormenting her with excessive violence to bring it forth whole for in a word, he must and ought to do, in his conscience, what his Art commands, without taking heed to what may be spoken afterwards: and every Physitian or Chirurgeon that hath a well regulated conscience, will always have a greater regard to his duty, then his reputation, in such a case; in performing of which let him expect his reward from God.

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SECT.

SECT. XXXII.

Of the extracting of a mola and false conception.

DR. We have hitherto Mrs. *Entrapelia* discoursed of births natural and unnatural; there is somewhat more, not like these, but often with them, and without them, which Physicians call a *Mola*, but you call it a false Conception: I pray, Mrs, therefore, what is that *Mola*, or false Conception?

Mid. A *Mola*, Sir is a hard, inform tumor, full of pores, (like so many ugly eyes) scarce to be cut by a knife, of a stony substance to touch, and round, appearing sometimes at the entrance of the Womb, sometimes over the whole Womb, and is thought (by very Learned Doctors) to be begotten by the woman her self without the help of a man, (though some affirm it cannot be without the seed of the man.) and therefore inanimate, because not generated by

two;

two; without the help of a man (I say) by the force of her own seed, mixing it self with much menstruous blood, retained in the Womb, which by immoderate heat is changeth into the shape of flesh, and that altogether unnatural, as is the stone in the bladder, and in the fingers of gouty persons, &c.

Dr. Well, Mrs, since 'tis so (tell me, I pray, wherein it differs from a true Conception?

Mid. It may, Sir, be like a true Conception in three respects, yet differ in six. As first, 'Tis true that a false conception stoppeth the monthly terms as doth the true.

Secondly, The belly also doth swell, and the breasts grow big.

Thirdly, There is an alteration both in the color and appetite; but yet they differ in these six following ways; as,

First, A false conception hath no ordinary nor periodical motion, neither doth it stir from side to side, except it be pressed.

Secondly, In a false conception the belly is harder, and the feet are much more swelled.

Thirdly, The woman is more heavy and unweeldy, and not so nimble as with a true conception.

Fourthly, The breasts swell not so much as in a true conception.

Fifthly, The whole body grows soft, and consumes away in a false conception.

Sixthly,

Sixthly, a false conception may be moved in three months, but the Child stirreth not till after three months, or usually in the fourth month: And again, the birth of an Infant never exceeds the eleventh month, whereas a false conception may continue for fourteen years, or as long as they live.

Moreover, there may be a Tympany caused by air included in the Womb. Or else there may be a Dropsie, by reason of the many humors contained in the Womb, both which may give a false supposition of being with Child; but these also are easily distinguish'd from a false conception. A Tympany may be moved from place to place, but not the other: A Tympany will sound, if lightly stricken, but not the other: and a Dropsie, caused by those many humors as aforesaid, will shew some marks, being depressed with the fingers, whereas a *Mola* is hard, and yieldeth not to the pulsation or depression of the fingers. And lastly, in both these most commonly the Thighs swell, but in a false conception or *Mola* the Thighs wither, and are lesser.

Dr. Thus far have you extreemly ingeniously, Mrs. *Entrapelia* exprest your self concerning a *Mola*; and now you have done, I pray you give me leave to lay you down my sentiments concerning both a *Mola*, and a false

false conception and the safest and best way to draw them forth of the Womb with safety.

First of all then Mrs. you must know that there are several sorts of great bellies belonging to Women, as hath been said before; there are your natural big bellies which contain a living Child; and those may be called true ones, and others unnatural, or against nature, in which, in lieu of a Child, is engendered nothing but strange matters, as wind mixed with waters, which may be called dropsies of the Womb, and false conceptions, and Moles or Membranes full of blood and corrupted seed; for which reason they are called false great bellies.

Now you must know that among the signs of a true great belly, one is the stirring of the Child in the Womb; but here you are to observe that it is very fit we should be always careful not to be deceived, by what we feel to stir in the Womb; inasmuch as the Infant of it self, is endued with 2 sorts of motions in its Mothers Womb, that is to say, a total motion, and a partial motion; the total motion is when it removes the whole body, and that is when it moves only but one part at a time, as the Head, Arms, or Legs, all the rest of its body lying unmoved; now the Womb blown up in fits of the Mother,

ther, yea and some moles have, by accident, a kind of total motion, but never a partial one; for that motion of a mole is rather a falling down then otherwise, to wit, a motion by which heavy things do use to fall downwards: for a Woman who hath a mole of any considerable bigness, whatsoever side she turns her self to, her belly will fall the very self same way immediately, even like unto an heavy bowl.

Then again you may remember that another sign of a great belly, was the stopping of the courses, and withal a little qualmishness, which is not always true, and women who daily use copulation are very often subject to be deceived hereby thinking that then they are with child, whenas indeed false conception shall cause you almost the same accidents as true ones, the which cannot easily be distinguished but by its consequences.

For this false great belly is often caused by wind, which blows up and stretcheth out the womb, like a bladder, the which women often discharge with as much noise as if it came from the fundament; and sometimes tis nothing but water which is gath'ed there in such abundance, as some women have been known to void a pail-ful without any child, though they verily believed they had been with child; Now your moles always proceed from

from some false conceptions which continuing in the womb grow there by the blood that flows to them and by the accumulation of which they are by little and little encreased : and if the womb chance to expell it before 2 months, it may be called a false conception ; and some of them are only but as it were the seed involv'd in a membrane, the others are a little more solid and fleshy, resembling, in some sort, the Gizard of a fowl, and are greater or less according to the time they remain in the womb, and also according to the quantity of blood with which they are always soaked : and women expell these false conceptions sooner or later according as they cleave to the womb, the which makes them almost always to flood in great quantity at those times, but for your moles they often continue in the womb after the ordinary time of labor ; some women having had them a whole year, yea many years, as happened to a certain Peuterors wife, of whom the great Chirurgion *Ambrose Parry* makes makes mention in his book of generation, who had a mole 17 years, and at last dyed of it ; for if they keep it so long they go in danger of their lives ; for their long or short continuance is according as they are more or less adhering to the inward parts of the womb, and are there entertained and nourished by the blood that flows thither. And

And here I pray you note that it is of great importance to distinguish well betwixt a true and a false great belly; for the faults committed by a mistake are always very considerable: forasmuch as in a true great belly the child ought to continue in the womb till nature endeavors to expell it by a natural labor, but contrarily the false great belly dictates to us to procure the expulsion of what it contains as soon as may be, wherefore we ought to be very careful. And if there be any occasions wherein the Physicians and Chirurgions and Midwives ought to be more prudent and to make more reflections upon their prognostics for an affair of so great an importance as this is, it is in this which concerns their judgments as to conceptions and womens being with child; to the intent that they may avoid the great accidents and misfortunes, which they may cause which are too precipitate in it without a certain knowledge. Now the faults which are and may be committed at such a time through too much fear, are in some sort excusable and to be pardoned, but not those caused by rashness which are incomparably greater.

And now to return to my discourse of moles, I take a mole to be nothing else but a fleshy substance, without bones, or joynts, or distinction of members; without form or figure,

figure, regulated and determined; engendered against nature in the womb, after copulation, out of the corrupted seed both of the man and the woman; notwithstanding there are some sometimes which have some lineaments of a rought form.

And here I take it to be very certain that a woman never engenders a mole without the use of copulation, both seeds being required to it, as well as for a true generation, though it may be otherways imagined, as you said, by very learned Drs. for truly though there may be some women, who though never having carnally had to do with any man, yet do naturally cast forth some strange bodies, after a flooding, which in a appearance seems to be flesh; yet notwithstanding if you shall take more diligent and special notice thereof, you will find it to prove to be but some clods of blood coagulated, either without consistence or fleshy texture, or any ways membranous, as are your moles and false conceptions; and that stony hardness was caused through its long stay in the womb being there baked as in an hot oven.

Now as to the manner of the engendring of moles I take it to be ordinarily this, that it is when either the mans or the womans seed or both together are weak or corrupted, the womb not laboring for a true conception, but
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by the help of the spirits with which the seed ought to be replenished; but so much the easier as that small quantity found in it is extinguished, and as it were choaked, and drowned by an abundance of the gross and corrupted menstruous blood, which sometimes flows thither, soon after conception, and gives not leisure to nature to perfect, what she hath, with great pains, begun; and so troubling its work, bringing thither confusion and disorder, there is made of the seeds and blood, a mere *Chaos*, called a *Mole*, not usually engendered but in the Womb of a Woman, and never or very rarely found in that of other animals, by reason that they have no menstruous blood as a woman that divine creature hath.

A mole, moreover you are to note, hath no burthen, nor navil-string fastned to it, as a child's alway hath, for as much as the mole it self sticks close to the womb, by which means it receives nourishment from its vessels, it is also likewise usually clothed with a kind of skin, in which is formed a piece of flesh confusedly interlaced with many Vessels; it is of a bigness and consistence more or less according to the abundance of blood it receives, and according to its disposition, and also according to the temperature of the Womb, and the time it remains there. For the most part there is but one, yet sometimes there are more, whereof

whereof some cleave very strongly to the Womb, others very slightly: if women miscarry of them before the 2^d Month, as I said before, they are call'd false Conceptions; and when they keep them longer, and that this strange body begins to grow bigger, then they are called Moles: and here you must know that your false Conceptions are more Membranous, and sometimes full of corrupted Seed, but your Moles are altogether fleshy; they cleave to the Womb almost always, and are sustained by the blood, with which it is always furnished, just as plants are by the moisture of the Earth. Sometimes there is a Child together with a Mole, from which it is sometimes divided and sometimes cleaving to its body, which puts it in great danger of being Monstrous or misshaken, because of the Compression which this strange body causeth to the little Infant, as yet being but very tender.

Thus having at large given you my Opinion concerning Moles and false Conceptions, their causes signs and differences; there remains now nothing more concerning this matter, to be demonstrated, but the manner how they ought to be drawn forth of the Womb.

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And now seeing that these things contain'd in the Womb, are wholly unnatural, their expulsion must be procured as soon as possible may be, the which is very difficult to be performed, when these strange Bodies cleave so fast to the Womb, and especially the Mole; therefore to avoid the abundance of accidents and inconveniences, as near as may be, that these unnatural things will produce, they must be endeavour'd to be expell'd as soon as may be; and for the *Mola* you must, before you come to the Manual Operation, try if by any means you can to cause the Woman to expel it of her self; to the which purpose you are to administer to her strong and sharp clysters, to stir up throws, for to open the Womb to give way to it; moistning also and loosening the Womb, with softening Oyntments, Oyls and Grease, not omitting bleeding in the foot, if there be occasion: Now the Mole will certainly be excluded by these means, provided it be but of an indifferent bigness, or that it cleave but very little or not at all to the Womb; but if it shall stick strongly to the bottom of the Womb, or that it be very big, the Woman will hardly be rid of it without the help of a Physician, Chyrurgions or Midwives hand; in which case after that you have placed the Woman conveniently, as if you were to fetch

a dead Child; then slide up your hand into the Womb, and therewith draw forth the Mole; but if it be so big that it cannot be brought forth whole, then 'tis wholly the man's work; who for this purpose use your crotchet or knife, but this is very rare, because it is of a tender soft substance, much more pliable then a Child's; but if you find it be only joyned to the Womb, and close fasten'd, you must separate it gently with your fingers ends, your Nails being paired, by putting them by little and little, between the Mole and the Womb, beginning on that side where it doth not stick so fast to the Womb, and so pursuing it until it be quite loosened; being mighty careful, if you find it grow to too fast, of rending or bursting the proper substance of the Womb, and proceeding as hereafter I shall speak of for the extraction of a Burthen staying behind in the Womb when the string is broken off.

For these same Moles never have any string fastened to them, nor any burthen from whence they should receive their nourishment, but they do of themselves immediately draw their nourishment from the Vessels of the Womb, to which they are almost always joined and sticking in some place: and as for the substance of their flesh, 'tis also

much more hard then that of the burthen ; and sometimes *Schyrrhous*, which is the cause why it is difficult to be separated from the Womb.

As to a false Conception, although it be much less then a Mole yet it often puts a woman in hazard of her Life, by reason of great fluddings, which very often happens, when the Womb would discharge it self of it, and endeavours to expel it, the which seldom cease till it be come away, because it doth continually endeavour to exclude it, whereby the blood is excited to flow away, and in a manner squeezed out of the open Vessels.

Now the safest and best way and remedy for a Woman in this case is to fetch away the false Conception, as soon as may be, because the Womb can very hardly avoid it of its own nature without artificial help ; for it being very small, the Womans impulse in bearing downwards cannot be so effectual when the Womb is but little distended by so small a body, as when it contains a considerable bulk in it, for then it is the more strongly compressed with the throws. Many times 'tis very difficult to fetch away these false Conceptions because the Womb doth not open and dilate it self, ordinarily, beyond

yond the proportion of what it contains, and that being but very little so is its opening; which is the reason why the Midwife is sometimes so far from introducing her whole hand, that she can scarce get in a few Fingers, with which she will be obliged to finish the Operation, as well as she may or can, by proceeding in the following manner, when she hath introduced them.

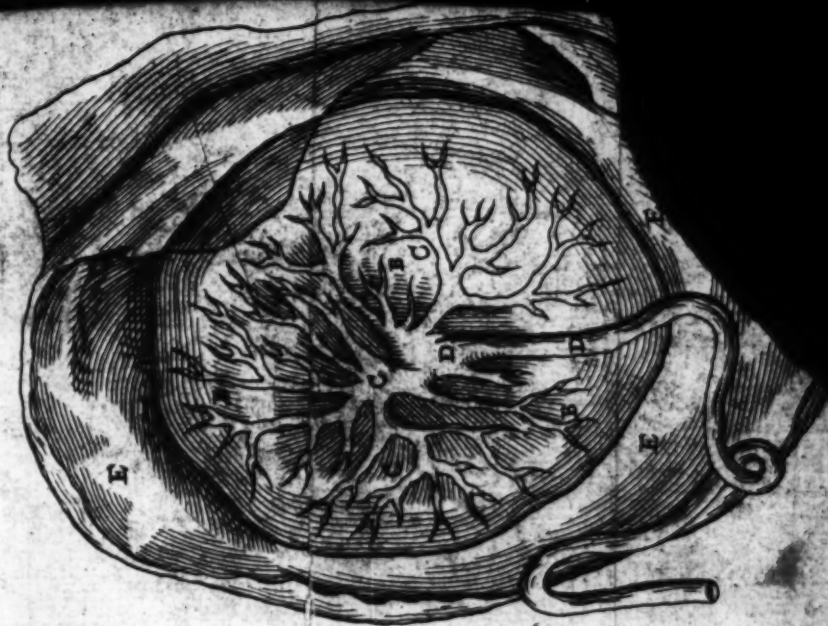
Having then very well anointed her hand, she must slide up the neck of the Womb into the inward Orifice, the which she will find sometimes to be but very little dilated, and then very gently put in one of her Fingers, the which she must presently turn and bend on every side, until that she hath made way for a second, and afterwards for a 3^d or more if it may be done without violence; but many times she hath enough to get in but 2, between which she must take hold of the false Conception (as Crabs do with their claws, when they fasten upon any thing) and then she must gently draw it forth, as also the clodded blood which she there shall find; and then afterwards undoubtedly the fludding will cease, if no part of the Conception be left behind: but if the inward Orifice cannot be more dilated then to admit of one Finger, and that the fludding is so violent as to

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endanger the Womans life; then is matter and manner to be wholly committed to care and artful industry of the skilful Physitian or Chirurgeon.

Mid. Now Sir, having discoursed so learnedly of these things, let us in the next place if you please, discourse of the After-birth.

SECT.



SECT. XXXIV.

Of the Secundine, or Afterburden, and the best and safest way to draw it forth.

DR. Come then, Mrs. if you please, tell me what the Secundine is.

Mid. The Secundine is that in which the Infant lyeth in the Womb, and may be called a second house, or covering, made by the Womb for a receptacle of the Infant; and it hath with it three membranes; but how Physicians name them, I know not.

Dr. I will inform you then, if you please, with their names and uses; and describe them to you in these two figures following, which are explained by letters also, as may appear.

The Explanation of the first Figures

BBB Signifies that part of the Secundine called the Chorion, which is the prop of all the Vessels of the young one.

CCC Denotes the branches of the Umbilical Veins and Arteries dispersed through the *Chorion*.

EEE The Membrane called *Amnios*, and is the thinnest of all the Membranes, and is white, soft, and shining, with few (and those very small) Veins and Arteries dispersed among the folds; and this is the very next coat to the Infant, and is the receptacle for sweat and Urine; that Membrane called *Allantois* not to be found in men, though an *Orachus* may be found.

DD Denotes all the Vessels meeting about the Navil, by which the Infant is nourished.

P. Q. Denotes the Membrane called *Amnios*, and is the first that involveth the Infant.

RRRR The Liver, or cake of the womb, or after-burden, by which the Infant receives nourishment, and this is fastned to the Womb.

SS The inward and outward Veins.

m. m. m. The Umbilical vein, with its branches dispersed into the after-burden, by which the Child is nourished, and upon which it lyeth, as upon a pillow, though in the *Amnios* it swimeth as in a bath.

VV How all the Vessels meet about the Navil.

b.b.b Denotes the Infant newly born, annexed to the *secundine*, the Navil-string not cut.



Dr. You see, Mrs. these Figures, with their uses and explanation; I shall now discourse more particularly of the membranes themselves. The after-burden, commonly called the *secundine*, is so named, either because it is as it were a second place, mansion, and

and receptacle of the Infant from the Womb; or else, because this Membrane is called the after-birth, or second birth, as coming forth after the Infant, which, if it stay behind, brings great mischief, as shall be spoken to at the latter end of this Treatise and Section.

The first membrane is called *Amnios*, and this membrane covers the Infant from the head to foot; insomuch, that part of it sticks to the head of the Infant when it is born, which they call a helmet, though not always, being left behind with the *secundine* in difficult labours: this is so called from its softness and thinness; others resemble it to white Paper, or a shirt, and is the thinnest of all, in which is found great plenty of humors, caused of urine and sweat, in which the Infant swimeth as in a bath, and lyeth so easie and secure, lest it should fall foul against those neighbouring parts that are harder; and besides that, when the membrane is broken in the birth, this water breaking out, may make the passages by the neck of the Womb more plain and slippery for the Infant; and this membrane also is every where included within the second, which is called *Chorion*, because it wraps the Infant like a ring; and this immediately compasseth the former, to which it is joyned as it were in a round

round figure, like to a cake, whose inward and hollow part it covers and involves, and doth extend it self to its dimensions, and can scarce be separated from it, but doth firmly knit and bear up the vessels of the afterburden, which immediately sticks to the womb by a certain fleshy mass that is formed, being round, and of somewhat a ruddy colour, not compassing the whole infant, by reason of innumerable springs of veins and arteries by which the blood is interwoven, as if it were poured in, and by which the infant is nourished. This towards the infant is smooth, but that part which is towards that fleshy round mass, is rougher.

This round fleshy substance is called the liver of the womb, or the cake of the womb; which, having such a substance as the liver hath, no wonder if it should make and prepare blood for the nourishment of the infant. On that side towards the womb it is rough, and unequal, like clefts in a bak'd cake; and being cut in this part, it sheweth an infinite company of hairs, which, if you trace, they will bring you to the orifice of the veins themselves. And, although there be twins, or more, yet there is but one cake; for into one cake so many navil strings are inserted (in divers places) as there are young ones; though it may differ as to the bigness, according

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ing to the body and condition of the infant, yet the ground is still the same in the diameter. This serves as a support of the umbilical vessels, like a pillar; it is also called the secundine. The third is called *Allantoides*; 'tis a coat betwixt the *Chorion* and *Amnios*; 'tis very thin, weak, and narrow; it covers but half the young one: this is properly like a swathe or girdle; and some say it is the receptacle of urine; but it being not to be found in mankind (there may be an *Urachus* found instead of it) I say no more of it.

Dr. These are the opinions of Physicians, good Mrs. *Eutrapelia* that have written of these things; now if you please I will tell you candidly and freely what my opinion is concerning these things.

As soon as the 2 seeds have been confusedly mixt and retained by conception, the Womb immediately after, by means of its heat, separates this *Chaos*, to make out thereof the delineation and formation of all the parts, and begins to work upon these Seeds, which though to the sight they may appear of a like nature and uniforme, notwithstanding in effect they contain many dissimilar parts in them, which it separates and distinguisheth one from another, inclosing the noblest, and on the outside the most glutinous, of which first are formed the Membranes, to hinder

hinder the Spirits, wherewith the frothy Seeds abound, from being at that time dissipated, and afterwards to serve to contain the Infant and the waters therein, in the midst whercof it swims that they may not stream away.

Now as the Membranes of the Infant are the first part formed, so are they with the waters, the first that present themselves to the passage in time of labour, before the Infants head.

Concerning these Membranes and the descriptions most Authors have made of them, I find them to be so dark therein that methinks 'tis an hard matter to conceive them, as they are, by the explication they make of them: for in the first place they do not agree in the number of them, some accounting 3, as well for a Child as a Beast, to wit the *Chorion* the *Amnios* and the *Alantoides*; Others accounting but 2, because there is no *Alantoides* in an humane *fetus*.

But if this matter shall be strictly examined, as hath been often done, there will never be found any more then 2, the which being so closely joyned the one to the other, they may be said to be but a double one, the which indeed may be divided and separated into 2, and this I will explain, to you and others, on such a manner, as may be best understood by such as are ignorant of this matter; For there

there are many who think with *Galen* that these Membranes are separate and distant, the one from the other, and that the one surrounds only the Infant, and the other receives the waters, the which are partly engendred from sweat, and partly from the Urine, as they imagine; and believe farther that these waters themselves are separated the one from the other, by these Membranes: the which is quite contrary, for they are joyned so close the one to the other, that they compose as it were but the same body and invelloper, the which serves as we have said, to contain the Infant with the waters, which are all of a nature, and shut up in the Membranes, as I shall make appear in speaking of their original; but it matters not as to the truth after what manner this be explained, provided it may be understood as it is.

The outward part then of this Membrane or double covering, or involver, call it what you please, or if it be esteemed 2, the first Membrane presented without, is called *Chorion* from the Greek word *Chorein*, which signifies to contain, because it immediately environs the other, which is called *Amnios*, that is a little lamb, because 'tis so small and thin. *Galen*, in his 11th book of the use of the parts, calls the Burthen *Chorion*. But to render this more intelligible we shall take this
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first Membrane for the *Chorion*, the which may again be separated into 2; though effectively it be but one. This *Chorion* is a little rough and unequal throughout the whole outside of it, in which many small capillary Vessels may be observed running quite round, as also many little strings by which it cleaves to every side of the Womb: but it is a little more smooth within, where it joyns every where, and unites with the *Amnios*, in such a manner, as it appears, as we said, but as one and the same Membrane. This *Chorion* covers the *placenta* and cleaves close to the fore part of it, which respects the Infant, by means of the interlacing of an infinity of Vessels, and 'tis also principally fastened to the Womb by the whole circumference of the *placenta*, in which part this Membrane is a little thicker.

Then the *Amnios*, which is the 2d Membrane is 3 times thinner then the *Chorion*, and is within very smooth, but not just so much where 'tis joyned to the *Chorion*, This Membrane is so thin that 'tis quite transparent, and hath no Vessels in it, the which makes it so thin, as cannot be imagined without seing. This *Amnios* doth no ways touch the *placenta*, though it covers it, but it only lines all the inner part of the *Chorion*, which is between, and from which it may be wholly separated if it be done with care.

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The better to conceive this as it is, and after what manner these Membranes are in the Womb, consider the composition of a foot-ball; imagining the leather which covers it to be the Womb of a pregnant Woman, and the bladder blown up with wind, within the foot-ball, to be this double Membrane of the *Chorion* and *Amnion*, in which are contained together the Child and the waters; and even as the outside of this bladder toucheth every where, because 'tis blown up, the leather of the foot-ball; so in like manner the Membranes of the *fetus* are joyned on all sides to the Womb; except where the burthen cleaves to it, in which place it passeth above it.

As to the 3^d or rather pretended Membrane which Authors call *Alantoides*, and say 'tis like, a sausage or girdle which surrounds and clothes the Infant from the sword-like gristle to just below the flanks only; 'tis very certain there never was any such thing in any of those Animals whose dams have but one young at a time, no more then Women, as Sheep, Cows, Mares, Asses, nor any other for ought could ever be learned from many curious enquiries.

Sometimes Infants, at their birth, bring forth these Membranes upon their head, and then 'tis said they will be fortunate: which
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is a mere kind of superstition, because it happens from the strength of their substance, so that they cannot break by the impulse of the waters, or the Womens throws in Labor, or because the passages being very large, and the Infant very little, it passeth easily without any violence: and in this respect they may be said to be fortunate, in being born so easily, and the mother also for being so speedily delivered: For in difficult Labors Children are never born with such caps, because being tormented and pressed in the passage, these Membranes are broken and remain still there.

Within the Infants Membranes, thus disposed as I have said, are the Waters contained, in the midst whereof it swims, and is seated; the original of which seems very uncertain, if we regard the different opinions of Authors upon this subject, some will have them to be the Urine emptied out of the Bladder by the *Urachus*, because they cannot find the true and easie way for it, and because their color and savor much resembles the Urine contained in the Bladder. But 'tis very certain that it cannot be so as they aver; because the *Urachus* is not perforated in the *ferus*, and it comes not forth of the Navil; for the place where 'tis fastened, is always very like a small Lute-string, through

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which

which it is most certain nothing can pass though never so subtil.

There are others also that will have these waters to be the Urine, but they are of an opinion that it passeth through the *Yard* whose passage is always open, and not by the *Urachus* which is never hollow.

Now for my part as it appears to me, with more reason, and as indeed it is, these waters are only generated out of vaporous humidities, which sweat out and exhale continually out of the Infants body, and meeting these Membranes through which they cannot pass, because they are too thick and close, are turned into water, which is thus by little and little collected, as well during the first months of Conception, the Child not yet quick, as all the remaining part of the time, after it is quick; for vapors pass forth and exhale out of all porous bodies that are hot and moist, as is that of an Embrio; and the reason is very weak by which they maintain these waters to proceed from the Urine, because they are salt as the urine is; For sweat, tears, and other humors which distill and sweat out of the body are as well salt as the Urine; of which the Infant whilst it is in the Womb, cannot have much, no more then dung in the Guts; because it receives no nourishment at the mouth at that time, & that all its superflu-

ous humors may easily pass away by transpiration, through the substance of all the parts of its body, which is very tender; wherefore I cannot conceive any necessity to oblige them more to empty the Urine, which is in a small quantity in the Bladder, then the excrements which are in the Guts, which is not then done in any manner, but only after the Child is born. *Bartholinus* and others would have the Infant however to empty its Urine through its Yard; and that these waters proceed from thence; but there is a greater probability it should be vented by transpiration; for before it is yet fully shaped and quick, there is notwithstanding found a proportionable quantity of these waters to the bigness of its body: which makes it appear that it is then neither the Urine rendred by the *Drachus* nor Yard; as all the World imagine; and that which proves it more plainly is the example of some Children born with their Yards imperforated, who notwithstanding have these waters, whilst in the Womb,

And here it must be observed that when there is more than one Child, they are never in the same Membrane, unless their bodies are joined together, which is rare and monstrous, but each have their Membranes and waters, apart.

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Now

Now these waters thus collected within these Membranes have divers very considerable uses; First, They serve the Infant to move more easily, as it were by swimming from one side to the other, and that it may not hurt the Womb by its frequent motions in striking dry against it, which would cause great pain, and often excite to Abortion; and they serve also very much to facilitate its passage in the birth making the way very slippery, and by that means the orifice of the Womb being moistened is better widened and yielding when they break, just when the Child is ready to follow, or a little before: for else remaining dry it is born with greater difficulty and the Mother also more tormented by it.

And now Mrs. *Entrap*. having thus sufficiently as I hope, explained the Membranes of the *fetus*, and the waters contained in them. I think it may not be amiss to say something, in order of inquiring after the parts by which it is nourished whilst in the Womb: and and here Mrs. *Entrap*. since, as was said in the beginning that it is only nourished by its Mothers blood; and that I am of opinion that big-bellied Women have none that is fair or good; provident nature hath formed the *placenta* to serve it for a Magazine, that it may always have sufficient, and be there again

again elaborated and perfected, to render it more convenient for its nourishment; for without doubt so gross a blood as the Mothers cannot possibly be converted into its substance, if it were not first purified in the *placenta*, which is afterwards sent to it by means of the umbelical veins and brought back, as we shall shew hereafter, by the Arteries, which are the conduits of which the Navil-string is composed. We say then that the *placenta* is nothing but a spongy and fleshy mass somewhat like the substance of the spleen, woven and interlaced with an infinite number of Veins and Arteries, which compose the greatest part of the body, made to receive the Mothers blood appointed for the Infants nourishment.

This mass is so called, because it resembles a cake, also it may be call'd the delivery, because being come forth after the Child is born the Woman is quite delivered of her burthen, it is also call'd the after-burthen, because it is as a 2^d Labor, of which the Woman is not discharged till after the Child be born: some give it the name of liver of the Womb, because they say it serves as a liver, to prepare the blood appointed for the Infants nourishment, and *Laurentius* calls it the sweet bread of the Womb, and appoints it the same use, as that of the lower belly, to wit for a rest

and support to the Vessels of the Navil which disperse an infinite number of branches throughout all its substance.

Now this *placenta* is made of the menstrual blood of the Mother, which flows into the Womb, by the accumulation of which it is formed; its shape is flat and round, about the bigness of a Trencher, and 2 fingers breadth thick about the middle, where the umbilical Vessels are fastened, but is thinner towards the edges. It is covered with the *Chorion* and *Amnios* on the side next the Infant, and on the other side 'tis joined and fastned to the bottom on the inside of the Womb; It is strongest fastned to the Womb (with its circumference) by the *Chorion*, which cleaves so close to it by the interlacings of an infinity of Vessels, which appear very large in its surface, that it cannot be separated from it without tearing its substance.

Though there be 2 or 3 Children in the Womb begot in the same act, they have usually but one common after-burthen, which hath as many Navil-strings as Children, which are notwithstanding separated from one another by their several Membranes, in each being the Children and waters: but if they be superfetations there will be as many burthens as Children; and as superfetations happen but rarely, so there are few Women that

that have their burthens separated when they are deliver'd of several Children.

We scarce find any Creature but a Woman that hath an Afterburthen, like this described, and dischatgeth it as useles as soon as the Child is born; for most other Animals cast forth nothing after their young, except the waters only and some times with the skins which surround them, and in lieu of this fleshy mass, those which, as a Woman, have but one at a time, have only some *caryodones*, or many spongy kernels joyn'd inwardly to the proper substance of their Womb, which terminates all the branches of the umbilical Vessels of their Young; which Kernels as I have often observed in cutting up Sheep, when they were not with young, are not bigger then hemp-seed; but when they were with young, they swell'd as big as one thumb, one bigger, and one lesser; and then they resembled the Figure of a round mushroom, on the outside, not yet spread after it's cut from its stalk; and to each of these kernels, are fastned the branches of the umbilical Vessels: however those that have more then one at a time, as Bitches, Rabbits, &c. have no kernels; instead of which each young hath in its celule a kind of particular *placenta*, which the dam eats as soon as she voids it, after she hath knawn off the umbili-

cal Vessels that hold in. But these thing being fitter for Physicians and Chyrurgions to be contemplated on, I shall proceed no farther to discourse thereon; and shall only desire you to note, that those Vessels appointed for the nouriture of the *fetus* are bigger then they are in Men, because of their hollownes, and as soon as the Child is born, dry up, and that part of them which is without the belly falls off, and is separated close to the Navil 5 or 6 days after; for which reason they lose their first use, and begin after to degenerate into suspending ligaments, to wit, the vein into that of the liver, and the 2 Arteries serve to extend and sustain the bladder, by the side, where they are joined to it; the bottom of which is yet suspended by the *Urachus*, which comes not through the Navil, as hath been said, but remains so pendent all the rest of its life; and now Mrs. I come to know how you use to fetch away the after-burthen, with the string and when 'tis broken.

Mid. That I shall freely do Sir, withal my heart; and therefore Sir you must note that the afterbirth being a useless thing to the Woman when the Child is born, she must immediately after be freed of that also; wherefore as soon as the Child is born, before I do so much as tye or cut the Navil-string, lest the Womb close, I must without time loose-
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In ease the Woman of this fleshy mass; To perform which having taken the string, I must wind it once or twice about one or 2 of her fingers of her left hand joyn'd together, the better to hold it, with which she may then draw it moderately, and with her right hand she may only take a single hold of it about the left, near the Privities, drawing likewise with that very gently, resting the while the fore finger of the same hand stretched forth along the string towards the entry of the sheath of the Womb, as may be seen in the annexed Figure, always observing, for the more facility, to draw it from the side where the burthen cleaves least, for in so doing the rest will separate the better; as we see a card which is glewed to any thing is better separated from the place where it begins to part then where it is close joyned. But above all things care must be had that it be not drawn forth with too much violence, lest breaking the string near the burthen, I be oblig'd to put up my whole hand into the Womb, to deliver the Woman; or that the Womb, to which it is very strongly fastned sometimes be not drawn forth with it; or a very great flooding be caus'd: wherefore for these reasons it shall be gently shaken and drawn forth by little and little, and to facilitate the better its expulsion, the Woman may

may the whilst blow strongly into her hands shut, as one does into the mouth of a bottle, to know if it be broke, or put her finger into her Throat, as if she would cause vomiting, or strive as if she were going to stool; bearing always down and holding her breath as she did to bring forth her Child; and if after all this I meet with difficulty, you may, if need be, after you know on which side it is seated, desire an experienced Nurse keeper to press the belly lightly with her flat hand, directing it gently downwards by way of chaffing, not too boistrously.

But if all this be invain then I must direct my hand into the Womb; to separate it, as you shall hear anon.

Then I must consider if there beall, and take care that the least part remain not, nor so much as the skirts, or any clods of blood; and this is the way to deliver a woman of her after-birth; but sometimes the Midwife by endeavouring it breaks the string by pulling too strongly, or because 'tis very weak; or else so putrified when the Child is dead that the least pull breaks it off close to the burthen, the which by that means is left behind in the Womb, or because it cleaves to strongly, or the Woman is weak, and cannot expell it, being much tired by a long Labor, or because it was speedily drawn forth after Labor,

bor, the Womb closeth so as it leaves it no passage, and cannot without much difficulty be dilated to fetch it away, because it remains dry after the natural flame and humidities are past: and seeing that if it remain behind 'tis capable of destroying the Woman, we must see to get it away as before, and if the Navil-string happen to break near the burthen, I must immediately introduce my hand into the Womb before it close, being anointed with oyl or fresh butter, to separate it from the Womb gently and draw it forth with the clots of blood that remain. When the Navil-string is not broken, it will easily conduct the hand, but when 'tis we have no longer this guide; wherefore I must be then very careful that I be not deceived in taking one part for another; as I once saw a Midwife pull the Womb near the inward orifice in lieu of the burthen.

As soon then as I have introduced my hand into the Womb towards its bottom, I shall find the burthen which I shall know by a great number of little inequalities, which are always made there, by the roots of the umbilical Vessels, on the side where they terminate, which makes it to be easily distinguished from the Womb; if it yet cleave to it, notwithstanding 'tis then a little wrinkled and uneven; because its Membranes which were ve-

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ry much enlarged contract themselves immediately after the Child and its waters which kept them extended are excluded, and they that are expert can easily judge of it.

Now if I find the burthen wholly loosen'd from the Womb, it will be easy to draw it forth, when I have got it into my hands, but if it cleaves, finding the side to which it sticks least, I must begin there to separate it gently, by putting some of my Fingers betwixt it and the Womb; continuing by little and little to do so, till it be quite loose, and then draw it forth very carefully; observing the whilst, if it cannot be otherwise, rather to leave some part thereof behind, than to scrape or scratch the least part of the Womb, for fear of a flooding, inflammation, or Gangrene, which cause death; being also careful not to draw it forth, till it be wholly or the most part of it separated, for fear of drawing forth the Womb with it, and to preserve it as whole as these cautions will permit, because of shewing it to the company, that they may know I have performed my office well.

But if the Midwife shall not find the Womb open enough to direct her hand immediately into it, let her presently anoint the Womans Privities with hogs grease then by little and little put up her hand, and let the
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the Woman contribute as before; but, if for all this she cannot void the After-birth, to avoid a greater mischief I must leave it to nature, assisting her with remedies which suppurate: wherefore injections into the womb are proper, made of Mallows, Marsh-mallows, Pellitory of the Wall, and Linseed, in which is to be mixed a good quantity of Oil of Lillies or fresh butter; and to hasten the work give her a strong Clyster, that so by the Motions to go to stool, it may cause it to be voided, as it hath arrived to many that have rendred it in the Bed-pan; and sometimes when they have least expected it.

At the same time, to prevent a Feaver or many other accidents which usually happen, she may be let blood in the Arm or Foot, according as it shall be convenient; and strengthen'd, that the cadaverous vapors coming from the putrification of the burthen ascend not to the heart and noble parts, which must be done by good cordials often used, not such as are made of Treacle and Methridate, &c. for which no reason can be given, but their specific, or rather imaginary Faculties, and are fitter to cause vomiting, then comfort the heart: But with true Cordials which are such as yield good nourishment, and at the same time comfort the stomach, without offending it, as those drugs do
which

which are only good for those that sell them.

Wherefore I must order her good broths and gellies; and to drink Orangade or Limonade, or to put some Syrup of Lemons in her refreshing Liquors; or if she be free from a Fever a little wine and water mixed; which is the best and most natural of all Cordials. Besides other remedies must be provided, according to the accidents that happen by reason of the staying behind of the burthen; always remembering to bring it away as soon as possible; for as long as it stays in the Womb the woman feels great pains continually, almost like them before her Child was born; and until the whole be voided, the pains will still be repeated although in vain, unless the matter be well disposed before; but the lesser the piece is of the retained burthen, the more difficult 'tis many times to be expelled; because the impulse, the woman can make by helping her throws, are not so great; when the matter contained in the Womb is small, as when 'tis of a considerable bigness; for then 'tis more strongly thrust and compress'd; which is the reason why a woman miscarries with greater difficulty then when brought to bed at her full time:

And

And here you must know there are divers Midwives, who having broken the Navil-string as before said, leave their work imperfect, and commit the rest to nature's work; but very often the poor woman dyes, because of the great mischiefs which usually happen before the suppuration of the burthen so retained: The which to avoid when they meet with the like case, I would advise them to fetch it away, as I have directed: or if they find themselves incapable to do it, because the hand must be put up into the Womb, which is more properly the work of a Physician or Chyrurgion, expert in those cases; then let them immediately send for one; that so he may be able, before the Womb closeth to introduce his hand, for the longer 'tis deferr'd the more difficult will the work be:

Dr. Hitherto very well *Mrs. Entrap.* have you exprest your knowledge and experience in your Art even from the first generation and formation of the Child in the Womb to the bringing of it safely forth into the world; But yet good *Mrs. Entrapelia*, there are divers Women that will many times be asking you your advice concerning other distempers that usually attend them, both before Child-birth, as Barreness &c. and also after they are deliverd of their Child, both inward and
outward

outward, because their modesty prompts them, rather to come to you than to the Physician or Chyrurgion; therefore I would have you to let me know how far your skill and knowledge extends as to these matters; because that if you should at any time be mistaken in your measures in the cure of any of those diseases, I shall freely and candidly assist you with the best of my directions to set all right and streight, as they say, and in good order.

Mid. Honoured Sir, I am so extreamly oblig'd to you, for this kind offer that I know not which way to express my acknowledgment, and I shall most readily answer your request, and therefore shall first begin with a discourse of Barrenness.

PART.

PART. II.

SECT. I.

*Of Barrenness and the several
kinds thereof.*

Mld. **B** Arrenness is, 1. *Natural*, 2. *Unnatural*, 3. *Accidental*.

Natural is when the instrument of Generation being perfect in both Sexes, no unlawful or unskilful means used to cause it, yet the Woman remains naturally Barren, neither Age or Diseases, or natural defect hindring, yet she Conceive not.

The reason of this may be 1. When both Sexes are of a Complexion; 2. Want of Love, a 3^d may be the letting Virgins blood ith Arm, before their Courtes come down; or other ill administration of internal and external remedies. 4. A loss of carnal Copulation; when Sexes come to the School of *Venus*, either not at all, or so coldly, that as
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good never a whit, as nere the better; and this is from a cold Distemper, and is cured by such things as heat and nourish.

2. Unnatural, that is diabolical, to prevent which Authors have left several ways, as to carry the Herb *St. Johns wort* about them, which is call'd a driver away of Devils, or a Plaister thereof applied to the Reins, with many others, but

3. *Accidental*, which comes by some casual infirmity upon the body of either Sex at a time; the which being taken away, the effect ceaseth: 'tis sometimes from the Man, but most commonly from the Woman; for Males instruments of Generation being perfect, and he in health, know no accidental cause in him; And the chief cause in Women lies in her Womb, as the stopping of the flowers, of overflowing, the Flux of the Womb, its falling down, inflammation, windiness, heat and dryness; in all which I shall be brief, because if there be difficulty, you are to have recourse to the learned Physician. When the Terms stop, 1. *Naturally*, 2. *Unnaturally*; they stop naturally in some about the year year, in some before, rarely till

till 55. the unnatural cause is, 1. much exercise, 2. in fat Women the Veins are narrow and blood turns to fat, 3. by long sickness, 4. when they have the piles in lieu of their Terms, 5. a hot or cold distemper of the Womb, 6. care, fear, grief, &c. I shall speak here only of the 5th for causes of the last being taken away the effect ceases, and the rest the ingenious Midwife will remedy. Now seeing these stoppings come usually from default of the Womb, the best way to help it is by strengthening the Womb, first then you shall prepare your way; if there be occasion let blood ith the foot, if she be not full of humors, if she be, then in the Arm first, which I have most commonly known to do alone: then if need be give her a draught of White-wine wherein an handful of Centaury or stinking *Arach* hath been boiled; and if there be a pain in the head add an handful of Vervain; or some Parcel roots, Fennel, or Lowage, &c. not forgetting in fulness of humors to purge with half a dram of *Extractum Rudii*, and as much *Pil. Mastichina* mixt, made into 12 Pills, whereof take 3 at Night going to bed, or after her first sleep.

2. The Terms overflow, i. when they continue longer then their usual time, which is 2 or 3 days, in Women that use no exercise

4 or 5 days, 2. when they come oftner then once a month, the cause is 1. a Rupture of some Vessel, 2. immoderate purgation, 3. some corroding humor, 4. hard Labor in Child-bed, or unkind handling the Womb: if the Vessels be broken, blood gusheth out in heaps, and if from some knawing humor, they are few but very painful; the rest are easily known. Let them abstain from exercise; then 1. anoint the reins with Oil of Roses, Myrtles or Quinces; then boil the roots of Tormentil, Cinquefoil, Yarrow, Knot-grass, Comfrey, dead Nettles, Solomon's Seal, Purslan, Shepherds-purse, red Roses, acorn Cups, bark of Oak Trees, some of these, in her ordinary drink; or the juices of what can be had taken alone, and this above all, take Comfrey leaves or roots and Clowns alheal, of each an handful; bruise and boil them well in Ale, and drink of it now and then, this will do though the Vessels were open.

3. *Flux of the Womb*, is a continual dropping from that part of the body; if it be red like putrified blood it comes from that humor; if white and pale, 'tis from Phlegm, if yellow, 'tis from Choler; if pure blood; as if a vein were opened either a knawing of the Womb, or tearing in delivery is feared. The cure differs as the cause, if pure blood
flow,

flow, let blood i'th arm, then use the Medicine last mentioned, of Comfrey roots and Woundwort; if flegm be the cause, use Cinnamon in all meats and drinks, and Methridate and Treacle for Antidotes, a little every Morning; take a scruple of Pills of Amber going to Bed for divers Nights; if from Choler, purge with syrup of Violets, and *Cassia Fistularis* of each an ounce; after take powder of Ivory and Mistletoe of the oak, of each one scruple, mixt with half an ounce of conserve of Roses; every Morning for a Week; if from putrified blood having first let blood i'th Foot, then strengthen the Womb, as before: always forbearing violent motions and passions, and sharp and salt meats; and provokers of Urine: for dead Nettles there are three sorts, white, red, and yellow, the flowers of that colour, the white help the white, the red, the red, the yellow the yellow flux.

4. The *Womb* fallen out is cured; if it be swell'd by bathing it with a decoction of Mallows, Linseed and Fennigreek boil'd in water, 2 or 3 times; and when 'tis got up let her keep her Legs close, or else tie them with a swath; apply stinking things to the Womb, as *Assa Fetida*, oil of Amber, her own Hair burnt; and let her smell of Civet,

Of the rest is before and after.

5. The *Womb* is inflamed by many causes; a blow, stopping of the Terms, Abortion, Ulceration, Immoderate Leechery, overmuch walking; cold. For cure, strengthen the *Womb* first; then first clarify Whey and boil Plantain leaves or roots in it; and drink it, then inject the juice of Plantain into the *Womb* with a Syringe; if in Winter, when you cannot get the juice make a strong decoction of the leaves and roots in water; if the body be costive use a Clyster; and here note that in all Inflammations blood-letting is the chiefest remedy, first ith Arm, then if need ith Foot; if it be near the Neck of the *Womb*, make a pessary of wool and anoint it with *unguent. album*, or *populeon*, or mixt.

6. The *Womb* is sometimes troubled with wind, which is cured as the fits of the Mother: and moistness of the *Womb* is cured as a flux of flegm.

7. Heat and dryness of the *Womb* is incident to Women of a Cholerick complexion, is cured by cool and moistning herbs, of which stinking *Arach* is chief, neither are Plantain and Mallows much behind; milk is good for such to drink, first purging with an ounce

ounce of *Cassia Fistula* new drawn going to bed, and follow your business the next day,

Dr. Thus far good, Mrs. *Entrap*. but now hear me a little concerning this matter;

All rational men know, that the generation of mankind, as also of other Irrational Animals, is the most perfect, excellent and exquisite work of God's Vicegerent *Nature*; the which is most excellently, and elegantly demonstrated, and set forth by *Aristotle*, that great Secretary of *Nature*; in his second Book which he hath written of the Generation of living *Creatures*; for whereas it is impossible, by the decree of Nature, that any humane Creature should live always, or have an immortal Being in this World; much less should we imagine that should be granted to Brutes and other Souls of an inferior rank; therefore, for the continuance and propagation of each sort, it hath otherwise ordained, that during the continuance of this World, there should be likewise maintained a successive generation of both Sexes, by the Action of procreation; and from hence, after him, *Galen* the greatest Luminary of Physick next *Hippocrates*, says, that it comes to pass that *Creatures* are furnished with Instruments of Generation, proper for the quality

of their Sex; and are consequently indued with natural Instincts prompting them to the use thereof: Therefore we shall at this time discourse of this wonderful operation of Nature; and endeavour, as far forth as our Talent will afford us, to seek out the causes that may hinder, and from thence prescribe means to remove them, and so consequently assist and further her in so miraculous a concern: and this partly upon our Dame nature's account, whose Servants only we are; and in the next place for the sakes of those Ladies, Gentlewomen and others, who are often disconsolate and dejected, upon their being accounted barren.

Now then you must note that as conception hath some alliance with every part of the Body, as being undoubtedly concern'd therein, so the same Conception may be quite abolished, diminished, or deprived as it happens in all other actions and motions of the body; so that if Conception be quite abolish'd in a Woman, in such sort that she can never be able to conceive; this affection is then called *Barrenness*; or such a Woman may be called a barren Woman, which you please. But if she Conceive sometimes, though feldome, here the Conceptive faculties may be said to be diminished; or weakened by
some

some cause or other ; and to this kind of diminished Conception may be referr'd untimely births, called Abortion ; And lastly a depraved Conception is when in the Womb is contained some unnatural Conception, such as Monsters and *Mola's*, &c. The causes and remedies of all which it hath and shall be our duty to lay open to the Females Sex, according to the best of our skil and knowledge : first to the end we may further the propagation of humane kind, and secondly, that we make if possibly remove the reproaches laid upon Barrenness, which hath been in all ages, and continues to this day and will do to end of the World ; and than which there can hardly happen a greater defamation to the Female Sex. Infomuch as some like *Rachel* have cry'd out to their Husbands for Children ; or else their Lives will lye on't, rather than endure the reproach of Barrenness, and some Women have preferr'd their maids to their Husbands, so that their Child might be reputed theirs, to take away the blemish of Barrenness ; But you shall find but few Women of their minds now a days: so then we shall in the first place speak of the causes of this so odious and distateful a Disease, and then of their removing ; for you know 'tis an old saying and true, take away the cause and the effect will consequently cease.

Now

Now the chief method of finding out all causes which do or may bring damage, to the faculties of the body, is no other then the knowledge of the means whereby these faculties perform their Actions, in the state of health and soundness of body. And whereas to the producing of any natural Conception there is a necessity of distinction of both Sexes and a conjunction and carnal Copulation of the Man and Woman, without which no Generation can be effected. As for that story of a certain Maids conceiving with Child by standing in a Bath, where some Mans seed had been cast, the Womb drawing it to it, as the Load-stone doth Iron, or Jet straw, it was either a miracle in Nature, or she so gave out to save her bacon, and so no ways belongs to our purpose, and having before declared the manner in other Sect. Therefore we shall here lay down the manifest causes of Barrenness from either Sex, so that neither may be unjustly blamed where they happen; for since the Women have, in this case a great interest, and damage too if the fault be in the Man; because they may often help their Husbands defect, and in so doing pleasure themselves, we shall not therefore omit to treat of the causes thereof which may happen to men; and moreover
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there being a necessity that both Sexes be furnished with fit and proper Instruments for the work of Generation, as the man with a Yard, &c. and a Woman with a Womb, &c. Then even reason will tell you, that if there chance to be any defect or disaffection in nature in any of the Members, of either Sex, belonging to this work of Generation, the fruitfulness or Conception must necessarily be hindered, impaired, or quite and clear abolished.

To begin then first with what belongs to the Man's side; one cause of Barrenness laid down by many Authors is the over-much length of the Yard; by reason whereof the Seed is too much cooled in the passage before it can be injected home into the Womb. But though this be a somewhat probable and plausible reason; yet I am of opinion that it is but weak and will not hold water with those of greater reason; (for all Souls are not endued with a like proportion of reason;) for the Seed passing through the pipe of the Yard is kept hot enough, the generative Spirits at that time off flocking to the Yard to assist it in so great a work; and the like being performed on the Woman's part, I cannot see how it can be any ways possible it should take cold in its journey; but on the
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contrary side it may be rationally imagin'd that the long Yard is most fit and commodious for Conception, by sending Seed to the inmost and furthestmost parts of the Womb, and so most likely to be there retained, its due time.

And now others on the contrary side will have the short Yard the cause of rendring Men unfruitful; and these I think have more reason on their side, because it cannot so well inject the Seed into the Womb, as you heard before; But indeed neither can this be a firm reason, for unfruitfulness in Man; since 'tis confirmed by experience that such an one hath begot Children likewise. But a greater reason of unfruitfulness in the man may be some vitiousness or defect in his Yard; as if it be crooked, or if any of its Ligaments be writhed, or broken or bruised; whereby the passages through which the seed should flow be corrupt, stop'd or vitiated; or some Disease or imperfection be either in the proper or Neighbor parts thereof.

Another cause of Barrenness by defect of the Yard, is a too much weakness and tenderness thereof, it being not strongly enough erected to inject the Seed into the Womb.

Then

Then another cause in Men may be some vice in the Stones, as if they be oppressed with any Inflammation, or swelling, or wound, or ulcer.

Also the Man may be Barren from his want of Seed, or if it be nought; as in the Running of the Reins or Venereal Disease, Glutony or Drunkenness, &c. and then too frequent Carnal Copulation, is a cause of Barrenness, because it attracteth the Seedy moisture from the Stones before 'tis sufficiently prepared; and concocted, as all other members of the body, by institution of nature, use to draw their accustomed juice to themselves, so now if any one by daily Copulation draws out all the moisture of his Seed, then do the Stones draw the moist humors from the upper Veins to themselves, and so having but a little blood in them they are forced, of necessity to cast it out raw; and thus the Stones being deprived of the moisture of their veins, draw the same from the upper veins, and the upper veins from all the parts of the body, for their proper nutriment, to the great damage of the body, robbing the same of the vital Spirits.

It is therefore no wonder if those that use immoderate Copulation are very weak in their

their bodies, seeing the whole body is thereby depriv'd of its best and purest blood and vital Spirits; insomuch as those that have been too much addicted to that pleasure, have killed themselves in the Act; can it then be a wonder that such Seed is not fit for Generation?

And having now shewn the causes of Barrenness in Men, we shall now discourse of those in Women; Now the causes of Barrenness in Women proceed either from the Age, or evil temper of the Womb, and its vicious conformation, and parts depending on it, or the indisposition of the whole habit of the body; The evil form of the womb renders Women barren, according to the great *Hippocrates*, the Prince of all Physicians, as if the mouth or neck of the Womb be turned backwards towards the great Gut, or a side out of its place, contrary from the Privities; if it appear too big, or if it be fallen down before the Privities; to which may be added when 'tis so narrow that it cannot admit the Yard to enter, and when 'tis wholly, or in part closed by some inward or outward skin, which is very rare, if at all; or by a swelling collosity, or cicatrice,

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But then it is not sufficient that the Mans Yard enter the Neck, which is the Anti-Chamber to the Womb, for if in the act of Copulation, he knock at the door which is the inward orifice, and it be not opened, all is to no purpose; and this may likewise be hindred from opening, by some callosity proceeding from abundance of ill humors, which usually flow from the Matrix, or from some swelling which may happen to it, or also by some part which may so press it, that it cannot open to receive the Seed as the *camel* doth in fat Women; according to *Hippocrates*, who says they cannot conceive till they grow lean.

But the most frequent reason why this orifice opens not in this Act, to receive the seed, is the insensibility of some Women, who take no pleasure in the Venereal Act; but when they have an appetite, the Womb being covetuous of the Seed opens it self to receive it.

The same *Hippocrates* seems to have noted all the signs and causes of Barrenness from the evil temper of the Womb, when he saith in his 62th *Aphorism*, book 5. that all such Women whose Womb is cold and close, cannot conceive, nor they who have it too moist,
because

because the Seed is extinguished in it; and likewise such who have it too dry and hot, because for want of aliment the seed corrupts; but such as are of a moderate temper are fruitful. Of all which in my opinion the most common is the continual moisture of the Womb fed by an abundance of the whites with which many are much inconvenienced, the humors of the whole body being accustomed to steer their course this way, which can very hardly be turned away when inveterate, and the Womb being imbued with these vicious moistures, becomes inwardly so unctious and slippery, that the seed though glutinous, cannot cleave to it; nor be retained within it, and that's the cause it slips away immediately, or shortly after 'tis received.

Barrenness may also proceed from the whole habit, as when a Woman is too old, or too young; for the Seed of the young is not prolific, neither have they menstruous blood, both which are requisite to fruitfulness, and that of the aged is in small quantity and too cold, who likewise want menstruous blood; then, an universal distemper, though of convenient years, renders them Barren, as when they are Hectick, Dropical, Sickly, &c. and especially so much the more as the whole parts are fallen from their temper

per and natural constitution. There are however many Women, which seem Barren for a long time, by reason of some of the aforementioned reasons, yea till 35 or 40 years old, and sometimes longer who yet at last conceive being cured of the distempers which hindered them, and having changed their temperament by their Age.

Now some of these Barrennesses may be cured by removing their causes, and procuring the dispositions needful to fertility; yea of those proceeding from an universal intemperament by reducing their body, by a convenient regiment, to a good order, according to their respective dispositions. Wherefore if one have the Neck of the Womb narrow, and not from some of the causes above said, she ought to be joyned to a Man whose Yard is proportionable; and if that will not do, which happens very seldom, she must relax it, and open it with softning oils, and ointments; If it be compressed by any humor it must be resolved and suppurated, according to its nature and situation, having always a care to prevent the corruption of these parts which are very subject to it, being hot and moist; because the Womb serves, as a sink by which all the bad humors of the body are purged; so that you must take great care
that

that these swellings turn not to a Cancer.

When the Neck is not clear by reason of any scar, after a rent, caused by some violence, or hard labor, or after an Ulcer which caused the two sides to be agglutinated, whether inwardly or outwardly it must be separated, which being the Chirurgeon's work, I here omit it.

If the inward orifice of the Womb be displac'd, it may be in some sort remedied by making the Woman observe a convenient posture in the act of Generation; and if the whites or other impurities of the Womb, cause Barrenness, they must be helped by evacuations, purgations, and a regular dyet, concerning which the learned Physitian is to be consulted.

Mid. Thus far Sir, having heard your account of the signs and causes of *Fertility* and *Sterility*; I having heard learned men discourse of *Superfetation*; I would humbly intreat you Sir that you would please to let me hear your opinion about that matter.

Dr. That you shall willingly good Mrs. *Euripella*, and therefore I shall begin first to tell you what it is.

SECT.

SECT. II.

Of Superfatation.

Dr. **S***uperfatation* according to the description of *Hippocrates*, is a repeated conception, that is when a Woman being already with Child, conceives again the 2^d time; now there is a great dispute about this; for we see daily Bitches, Sows and Rabbits, have divers young but with one Copulation, which may make us judge the same of a Woman; some will have this to be by *Superfatation*, but there are signs by which we may know the difference, whether both Children were begot at once, or one after the other. That which makes many believe there can be no such thing as *superfatation*, is because as soon as a Woman hath conceived, her Womb closeth firmly so that the Man's seed, absolutely necessary to conception, finding no place nor entry, cannot be received, nor contained in it, so as to cause this 2^d conception. To this may be added, That a bearing Woman dischargeth her seed, which is as necessary as a Mans, by a Vessel which terminates on the side of the outward part of
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the inward Orifice; which seed by this means is shed into the Neck of the Womb, and not into the bottom; as it ought, for this purpose. However it may be said in answer, to these objections, which are very strong; that though the Womb be clos'd, &c. yet this general rule may have some exception; so that it may be sometimes opened to let pass some slimy excrements which by their stay offend it; or chiefly when a Woman is animated with an earnest desire of Copulation, in the heat of which action she sometimes dischargeth by the passage that terminates in the bottom of the Womb, which being opened by the impetuous endeavor of the seed, more then ordinarily overheated, and this Orifice being at the same time a little opened, if the Man's seed be darted into it at the same moment, 'tis thought a Woman may then conceive again. This may be confirmed by a story of a Servant related by *Pliny*, who having the same day copulated with two several Persons, brought forth two Children, the one resembling her Master, the other his Proctor: and also by a story of another Woman, who had two Children, one like her Husband and the other like her Galant; but this different resemblance doth not always prove *superfétation*, because sometimes different ima-

ginati-

ginations may cause the like effect.

The 2^d Conception is effectively as sure, as we find the decision thereof uncertain; nor must we imagine that always when a Woman brings forth two Children, or more at once, there is a *superfetation*; because they are always almost begot in the same Act, by the abundance of both Seeds received into the Womb; neither must we believe that it may be at all times of a Womans being with Child; for it cannot be either the first or second day of Conception; because if the last Seed be received into the Womb, it would make confusion with the first, which is not yet enwrapt with this little skin, that might otherwise separate it, nor is formed perfectly till the sixth or seventh day; as *Hippocrates* saw in a Woman, who about that time expelled this geniture: Besides the Matrix opening it self again could not hinder the first Seed from slipping out; being not as yet invellopt with this little skin, which could preserve it. This may make one not to believe *Pliny's* story; that it happened for his reasons, to wit, that she used Copulation with two several Persons the same day; for the last would certainly have caused this confusion of Seeds, and also have destroyed the work begun: But I rather believe that this *super-*

fetation may happen from the 6th day of Conception, till the 30th or 40th at most; because then the Seeds are covered with Skins, and that which is contained in the Womb, is not of a considerable bigness; but after this time it is impossible, or yet at least very difficult, because the Womb being extended more and more by the growth of the Child can hardly receive new Seed & as hardly retain it; but casts it forth by reason of its fulness; and 'tis a true Maxim, *intus existens prohibet alienum*.

Now when a Woman brings forth one or more Children at a Birth, begotten at once which usually are called Twins, (and differs from *superfetation*) 'tis known by their being almost of an equal thickness and bigness, and having but one only and common after-birth; not separated the one from the other, but by their Skins, which wrap each a part with their waters, and not both in the same waters and skin; as some have believed; but if there be several Children and a *superfetation*, they will also be separated by their Skins, but not have a common burthen, but each a part; neither will they be of an equal bigness, for that which is the *superfetation* is always lesser and weaker, then that which was first engendred; who because of its force
and

and vigor draws to it self the greatest and best part of the nourishment ; just as we find in fair and great fruit, that have often near them very little ones ; which happens because those that are first knotted and fastned to the Tree, take away all their nourishment from their Neighbours, which did bur blossom when the first had acquir'd ground and bigness: and sometimes Twins are not of an equal bigness, which happens as the one or other hath more strength to draw to it in greater abundance the best part of the common nourishment.

Now I am not willing to say that there is never any *superfetation* ; but I say that it happens very rarely ; for of an hundred Women that have Twins, ninety have but one burthen common to both, which is a very certain sign they had no *superfetation*, and much more certain then the observations taken from the greatness, or strength of the Child, which is but conjectural.

And thus have I given you Mrs. my full sentiments concerning this so much disputed and intricate matter : Now I pray you proceed to the other distempers accompanying Women before Child-Birth.

Mid. That I shall Sir, and the next shall be concerning their vomitings.

SECT.

SECT. III

Of Vomitings of Women with Child.

Mid. **V**OMITTING with suppression of the Terms, are for the most part the first accident, and the means by which they perceive they have conceived. It is not always caused from ill humors in the stomach, because of the stopping of the courses; for these corrupted humors cause rather a depraved appetite than this vomiting, which happens immediately after Conception, and comes by succession; but these first vomitings proceed from the Sympathy between the stomach and the Womb, because of the likeness of their substance, and by means of the Nerves inserted in the upper Orifice of the Stomach, which have communication, by continuity, with those that pass to the Womb, being portions of the 6th pair of those of the brain. Now the Womb, being a very sensible part beginning to grow bigger, feels some pain, which being communicated by this continuity of Nerves to the upper Orifice of the Stomach, causes these loathings and vomitings. And to prove that it is thus,
and

and not by the pretended ill humors, it appears in that many Women begin to vomit from the first day of their being with Child, who were in perfect health before they conceived, which the suppression of the Courses could not cause.

Now *loathing*, or *nauseousness*, is a desire to vomit, and a motion by which the stomach is drawn towards its upper orifice, without casting up any thing; and vomiting is a more violent motion, by which is cast forth of the mouth whatsoever is contained in it.

At first vomiting is but a single symptome, not to be feared, but continuing long it weakens the Stomach very much; and hindring digestion corrupts the food in lieu of concocting it; whence succeed ill humors which require purging. These vomitings commonly continue till the 3^d or 4th month of being with Child; which is the time the Child appears manifestly to be quick; then they begin to cease, and Women recover the appetite they had lost; because the Infant in growing hath need of more nourishment: and so consumes those humors which flew to the Stomach; and besides the Womb is then accustomed to its extension; these continue in some till they are delivered, which often endangers

dangers miscarriages; and the rather, the nearer they are to their full time; and others are tormented more towards the end of their reckoning, then at first; because then the Stomach cannot be widened enough easily to contain the food, being pressed by the bigness of the Womb: such a vomiting to Women whose Children lye high seldom ceases before they are deliver'd.

Be not troubled at vomitings, in the beginning, if they be gentle, without straining, for they are beneficial, but if they continue longer then the 3^d or 4th month, they are to be remedied; because for want of nourishment the Mother and Child will both grow weak; and the continued subversion of the Stomach causing great motion of the belly, will force the Child before its time.

Now to hinder this vomiting from afflicting the Woman long, for 'tis very hard to stop it quite, let her use good dyet, but little at a time, that she may keep it without pain, and not be forced to vomit it; and to strengthen it let her eat it with juice of Oranges or Lemons, Verjuice or rose vinegar, or eat after Meals a little Marmelade of Quinces; and she must forbear fat meat and sauces, for they soften the Skins of the Stomach,
which

which are weak and loose by vomitings, and also sweet sauces.

But if for all this that it continues, although the Woman be above half gone; 'tis a clear sign there are cleave corrupt humors to the inward sides of the Stomach, which must be purged by stool; to effect which, give half a dram of Rhubarb, a dram or two at most of Sena, infus'd in posset-Ale, to which streined add an ounce of Syrup of Succory: which dissolves the humors, and in voiding them comforts the parts: or you may give her Cassia and Tamarinds; always adding a little Rhubarb, or Syrup of Succory compound: If once be not enough, repeat it, some few days respite between; If it continues for all this, you must rest here, lest some worse thing happen, for she is then in great danger of miscarrying; and if the Hiccup takes them from too much emptiness, by vomiting and purging, 'tis very bad, as *Hippocrates* Prince and oracle of Physick teacheth us.

As for great Cupping-glasses which some advice to be applied to the Stomach to keep it in its place; I believe it's a chip in Potage; because the Stomach is loose, and no way cleaving to this upper part of the
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the belly. But since these vomitings cool and weaken it, I should advise them to wear a piece of Scarlet or Flannel, or Lamb-skin, which would help digestion.

SECT.

SECT. IV.

*Of the pains of the Back, Loins;
Reins and Hips.*

ALL these Accidents are but the effects of the widening of the Womb, and the compression it makes on the Neighboring parts by its weight. These are greater the first time she is with Child, for afterwards the Womb only receives the same dimensions it had before; and the cords which hold it in its natural place, as well round as large, suffer a greater stress, being much drawn and streightned by the bigness and weight of the Womb; to wit the large ones those of the Back and Loins, which answer to the Reins, because these two strings are strongly fast'ned towards these parts; and the round ones cause those of the Groins, Share and Thighs where they end. These are sometimes so much stretch'd by this weight and bigness of the Womb that they are torn, chiefly if the Woman chance to have a false step, which causes very great pains, and other worse accidents; as it happened to a certain Woman, being six months gone of her

her first Child, who felt the like after she had stumbled, and perceived at the same time something crack towards her Reins and Loins, which was one of the large cords; made a noise by the suddain jolt she receiv'd; at the same instant she felt extream pains in her Reins and Loins, and all one side of her belly, which caused her immediately to vomit, very often with much violence, and the next day was taken with a great continued Feaver, which lasted seven or eight days, without being able to sleep or rest one hour, all that time she vomited all she took, with a strong and frequent Hiccoup, and great pains, which seem'd as if they would hasten her Labor, which I was very apprehensive of, as also of her death: but by the help of God, causing her immediately to be put to Bed, where she rested 12 whole days, she was thrice let blood in her Arm on several days, and took a grain of *Laudanum* at twice in the yelk of an Egg, a little to ease her violent pains, by giving her rest; taking also from time to time good strengthening Cordials; so that all these Symptoms, which at first seemed desperate, ceased by little and little, and she went out her full time, and then was happily delivered of a Son, which lived 15 months, notwithstanding all those mischievous accidents befall her, which were enough

to have kil'd half a dozen others; but God sometimes is pleased to work Miracles by nature, assisted with remedies fit for the purpose, as well as by his Grace. And also the Womb causeth the pains of the Hips by its weight, in bearing too much upon them. And assure your selves there is nothing will ease all these pains better then to rest in Bed, and bleed ith Arm, if there be any great extension, or breaking of any cord of the Womb, as was in this case; and when the Womb bears too much upon the Hips, if she cannot keep her Bed, she must support her Belly with a broad swaith.

SECT.

SECT. V.

Of the pains of the Breasts.

AS soon as a Woman conceives, her monthly blood wanting ordinary evacuation, and the daily breeding blood, there is a necessity, she consuming but little whilst first with Child, that the Vessels being too full, should discharge part, as it doth, upon the parts dispos'd to receive it, such as the kernelly parts, especially the Breasts, which suck up a great quantity of it, which swelling them causes this pain which she feels, and happens also to those whose Terms are only stop'd.

To ease her we ought, in the beginning, to leave it to Nature, the chief Physitian, and she must only have a care she receive no blows thereon, nor be streight laced; but after the third or fourth month the blood being still sent to the Breasts in great store, 'tis much better to evacuate it by bleeding in the Arm, then to turn it back upon some other part by repercussive or binding Medicines, because it cannot flow to any part where it can do less
P hurt

hurt than these; and to shun the accident of which *Hippocrates* speaks in his 40th Aphorism, of the 5th book; *If Blood be carried in too great abundance to the Breasts, it shews the Woman is in danger of being Frantick*; because of the transport which may be made thence of the brain; which is voided by moderate bleeding i'th Arm, and a regular cooling dyet, moderately nourishing.

SECT.

SECT. VI.

*Of involuntary voiding, and stop-
ing of Urine.*

THE seat of the Bladder which is just upon the Womb, is sufficient to instruct us, why Women with Child, are sometimes troubled with difficulty of Urine; and why often they cannot hold their water; which is caused 2 ways, 1. because the Womb by its bigness and weight presses the bladder, so that 'tis hindred from its ordinary extension, and so incapable of containing a reasonable quantity of Urine; which is the cause the bigger she grows, and the nearer her time, the oftner she's compelled to make water, 2. if the weighty burthen of the Womb doth very much press the bottom of the bladder, it forceth the Woman to make water every moment, but if the neck of it be pressed it is fill'd full with Urine, being not able to expel it, because the *Sphincter* Muscle, in this compression, cannot be opened to let it out, which causes great pain. Sometimes by its sharpness, stirs up the bladder often by pricking it, to discharge it self; and sometimes by its

heat it makes an inflammation in the neck of the bladder, which causes its stopping : and if it be from a stone in the bladder 'tis more insupportable and dangerous to a Woman with Child then one that is not ; because the Womb, by its swelling causeth the stone perpetually to press against the bladder, and the pains are violenter, if it be greater, or of an unequal or sharp shape.

'Tis of great moment to hinder these violent endeavors to make water, and to remedy them, if possible, in all indispositions, because by long continuance of forcing downwards to make water, the Womb is loosened and bears down, and is sometimes forced to discharge its self of its burthen before its time : which we must endeavour to hinder, having respect to its different causes ; as when it comes from the weight of the Womb, pressing the bladder, as for the most part ; now she may remedy it, if with both her hands when she would make water, she lift up the bottom of her belly ; or wear a large swath or keep her bed.

If it be sharpness of Urine that makes an inflammation iⁿ the neck o^f the bladder, appease it by a cooling dyet, forbearing strong drinks, using emulsions made of the 4 cold seeds, or whey

whey with syrup of Violets ; use not purging because its heat augments the inflammation; these are proper to cleanse the Urinary passages, without either prejudging Mother or Child, taken Morning and Evening. If all this prevail not let her blood a little isth Arm ; and bath the outward entry of the neck of the bladder with a decoction of Mallows, Marsh-mallows, Pellitory and Violets, with a little Linseed ; and inject some of the same into the bladder, to which you may add Hony of Violets, or luke warm Milk : abstaining from all diuretics, for fear they provoke Abortion. And when all fails she must send for a Physitian or Chyrurgeon to make use of his *Catheter* ; And also if it arise from the stone in the neck of the bladder, they may thrust it back with it ; but if small draw it forth ; for a great one cannot be drawn forth before she bedelivered ; being better to leave her so then endanger her life or the Childs.

SECT. VII.

Of a Cough and difficult breathing.

THEY whose Infants lye low, are more troubled with difficulty of Urine, then they whose lye higher, who are free from that and the like distemper, but are more subject to a Cough and difficult breathing.

If a Cough be violent, to vomiting, 'tis one of the chiefeft things which cause Abortion; because 'tis an essay whereby the Lungs endeavour to cast forth of the Breast that which offends them by a compression of all its Muscles, which pressing all the inclosed air inwards, wherewith the Lungs are much stretched, thrusts also downwards by the same means, the midriff, and consequently all the parts of the lower belly, but particularly the Womb, which continuing long and violent, often causeth Abortion.

Sometimes it proceeds from sharp rheums, which distil from the brain upon the Artery and Lungs; and sometimes from such blood, which flows towards the Breast; upon stopping
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ping the Terms; also from too cold air breathing which stirs up the parts to motion; but being begun by these causes 'tis often augmented by the compression the Womb makes upon the Midriff, which cannot have its liberty in those that bear their Children high; because by its great extension it bears up almost all the parts of the lower belly, towards the Breast, and chiefly the Stomach and Liver, forcing them against the Midriff.

You must remedy this by keeping good dyet somewhat cooling, if from sharp humors, avoiding all Salt and Spice meats, Oranges, Lemons, Vinegar, &c. but she may use juice of Liquorice, Sugar-candy, syrup of Violets, or Mulberries, which she may mix with a Ptyisan made with *Jujubs*, *Sebestens*, French Barley, and a little Liquorice; and it may not be amiss to divert and draw down these humors by a gentle Clyster. If these prevail not, and there appears signs of fulness of blood, bleed her in the Arm, at what time soever of going with Child; and though it be not usually practis'd when they are young with Child, yet here it must; for a continual Cough is much more dangerous than a moderate bleeding. If it come of cold keep in a close Room with a napkin doubled about her Neck, or a Lamb-Skin; and going to
P 4 bed

bed take 3 or 4 spoonfuls of this syrup of burnt wine following, which is very Pectoral and causeth good digestion.

Take half a pint of *French* wine, 2 drams of Cinnamon bruised, half a dozen cloves, 4 ounces of white Sugar or Sugar-candy ; put them together in a Porrenger, and boil them upon a Chaffing dish of Coals, burn it, and then boil it to the consistence of a Syrup.

You must note from whatever cause it proceeds, that she must go loose in her cloaths ; and because sleep is proper to stay fluxions, it may be procured by the Physitian : using no strong stupefactives of *opium*, which are dangerous, if there be not very great necessity ; as in the patient mentioned in the Section of the pain of Back, Loins, Reins and Hips.

Some Women carry their first Child chiefly so high, because the cords which support the Womb are not stretch'd, that they think them to be in their Breasts, which causes a difficult breathing, as soon as they have eaten a little, walked or gone up the stairs ; so that they fear they shall be choaked ; which comes from the Wombs being enlarged and pressing the Stomach and the Liver, which forces the Midriff upward, leaving it no room
to

to be moved: sometimes their Lungs are so full of blood, driven thither from all parts that it hardly leaves passage for the air; if so they will breath more easily as soon as a little blood is taken from the Arm; but if it comes from a compression made by the womb against the Midriff, the best remedy is to wear her clothes loose, and eat little and often; eating no windy meats as pease, and avoiding all grief and fear, because they drive the blood to the Heart and Lungs in too great quantity, so that she having her Breast already stuffed, and hardly breathing, will be in danger of being choak'd; for the abundance of blood filling the Ventricles of the Heart above measure and at once, hinders its motion, without which she cannot live.

SECT.

SECT. VIII.

*Of the swelling and pains of the
Thighs and Legs.*

MAny think, which is in part true, that the Woman having more blood then the Infant needs to nourish it, nature by virtue of the expulsive faculty of the upper parts which are always strongest, drives the superfluity upon the lower, as the Legs, &c. as most feeble and apt to receive it; and so are caused their swelling and pain and sometimes red spots, from the swelling of the Veins, along the inside, which extreamly hinders her going: but the doctrine of the circulation of the blood, invented by our Countryman the immortal Dr. *Harvey*, the English *Hippocrates*, will teach us better how this comes, then that we need have have recourse to this expulsive faculty; but because 'tis fitter for Physitians and Chyrurgeons that are learned in Anatomy then Midwives, being they may help them without such curious knowledge; I shall omit it, and if you would
be

be satisfied, see what the learned and expert *French* Chirurgion *Moriceau*, hath written on this Subject, 'tis put into *English* by Dr. *Chamberlain*.

Now to remedy these let her only use a palliative cure, in swathing the parts with a rowler 3 or 4 fingers broad; beginning at the bottom, and she should most keep her bed, if she can; and if there be signs of abundance of blood in other parts she may bleed without danger.

Some Womens Legs swell only from weakness, and are so Flegmatick that when you press them with your finger the print remains; because they want Natural heat sufficient to concoct all the nourishment sent to them, and expel its superfluities, which remaining makes them so Hydropical. To resolve these swellings, make a Lee made with the ashes of Vines, or other wood ashes, and Melilote, Camomil, and Lavender boild in it; if that do not foment them with this. Take Rosemary, Bays, Time, Merjoram, Sage and Lavender, of each a handful, Province Roses half a handful, Pomgranat flowers and Alum, each an ounce, boil them in 3 pints of strong red

red wine, to the waſting of a 3^d part and uſe it. But theſe ſwellings commonly ceaſe when ſhe brought to Bed, becauſe ſhe purgeth the ſuperfluity of her whole habit, by her *Lochia*.

SECT.

SECT. IX.

Of the Hemorrhoids.

THESE are swellings and painful Inflammations caused by a flux of humors upon the extremities of the Hemorrhoid veins and Arteries, caused by a bundance of blood cast upon these parts because the body is not purged as before; and sometimes by endeavors they have to go to stool when costive; If they be small and without pain, either inward or outward, 'tis easie to prevent their farther growth, by remedies which hinder and turn the flux from those parts, but the great ones are cured by first easing the pain; so that if she have other signs of fulness in the rest of her body she may safely be once let blood ith Arm, and if great necessity twice, if she be costive let her take a Clyster, of Violets, Mallows, Marsh-mallows, and hony of Violets, with some fresh Butter or Oil of Almonds; adding no sharp thing, especially in inward Piles; after let her keep a moderate and cooling dyet, and rest in her Bed, if she may, till the flux be past; in that
while

while anointing them with strokings from the Cow, and foment them with the decoction of her Clyster, adding some Linseed: your Oil of sweet Almonds, Oil of Poppies, and Oil of water Lillies well beaten together with the yelk of an Egg, in a leaden mortar, are very good to ease pain; and if that Inflammation be great anoint a little with *Unguentum refrigerans Galeni*, or *unguentum album*, & *populeon* equally mixed.

After all this if the swelling abates not, apply Leeches, or if soft, or any kind of inundation use a Lancet; but Leeches are properer for hard Piles, because they pain not so much. Women are not here eased by Piles as Men are, because 'tis contrary to nature, for this evacuation ought always to be made by the Womb; if not with Child; but if she be, it may in some measure, if full of blood, supply the natural; if they bleed moderately, and without pain she may be eased, but if they flow too much there's danger of both Mother and Child being weakned; to avoid which make binding fomentations with the decoction of Pomgranate flowers, and Vines, and Province Roses, made in Smiths water and a little Allum; or this pultis made of Bole-
Armenac,

Armenac, Dragons-blood, and sealed earth, with the white of an Egg: and to turn the blood by bleeding ist Arm, and Cupping-Glasses to the Reins, &c. as you may consult the Physitian.

SECT.

SECT. X.

Of the several Fluxes happening to Women with Child.

SHE is Subject to three sorts of Fluxes, the Flux of the Belly, of the Terms and Fludings.

Of the Belly are three kinds, the first *Lienteria*, when the Stomach and Guts not digesting the nourishments received let it pass away raw. 2. *Diarrhea*, when they simply discharge the humours and excrements which they contain. The 3^d and worst is a *Dysentery*, when with the humors and excrements she voids blood, with violent pains, caus'd by an ulceration of the Guts.

Any of these if they continue long put her in great danger of Aborting; if the first, the Stomach letting the food pass before it be turned into juice, whereof blood is made to nourish Mother and Child, they must both be weakened; if the 2^d it will cause the same accident; because of voiding the Spirits with the humors; but most danger's i^th last, because

because she hath then great pains and Gripes i'th Guts from their Ulcer; which excites them continually, by constant prickings, to discharge themselves of the sharp humors which causes a violent motion of the Womb, being plac'd upon the right gut, and to the Child, and, by the compression the Muscles of the belly make on all sides, as also those that are made by them of the Midriff, which force themselves downwards in the endeavors she makes with pain so often to go to stool, the Child is constrained to come before its time, and the oft'ner by how much the prickings are greater: for according to *Hippocrates*; Aphorism 27. book 7. *If a tetanasm happen to one with Child, it makes her Miscarry.* Now this *tetasm* is a great passion of the right Gut, which forceth it to make those violent endeavours to discharge it self without being able to avoid any thing but Cholerick humors mixt with blood, by which 'tis perpetually pricked.

This Flux happens to her commonly from a weak digestion of the Stomach, because of her bad dyet, which her strange appetite causes her often to long for, by the constant use whereof at last being weakened it suffers the food to pass without digestion, or if it stay longer 'tis turn'd into a corrupt juice,
 Q which

which descending into the Guts irritates them by its sharpness to discharge themselves as soon as they can.

To proceed safely in the cure of these Fluxes, their nature must be consider'd, that the cause that maintains them may be remov'd. If it be a *Liberia* following Vomiting, as is usual, which have so weakn'd the Stomach, and loosn'd its Skins, that having no longer strength to vomit up the food, it suffers it to pass downward without digestion; then she must refrain all irregular appetites, and eat food of good digestion and little at a time, she may drink a little deep Charet wine, in which Iron hath been quenched, if she have not a strong Fever, for in a small one wine is to be prefer'd, because her Fever is but symptomatick, from the weakness of her Stomach, and will vanish as soon as it is fortified; which may be promoted if she take before and after meals, some of that burnt wine spoke of before for the Cough, or a little good Hippocras, or right Canary, or eat a little Marmalade of quinces before meals; and wear a Lamb-skin upon the pit of her Stomach; be sure to give no purge, for this is only caused by weakness.

If it be a *Diarrhea* simply voiding such excrements as are in the Guts, and some superfluous humors, which nature hath sent to be expelled, and it be gentle and continue not long, she will feel no damage by it, and so 'tis good to leave it to nature without interrupting it in the beginning; but if it continue above 4 or 5 days 'tis a sign there are ill humors cleaven to the inside of the Guts, and ought to be expelled by some light purge after which it will certainly cease.

But if for all fit purges, it changes into a *Dysentery*, she is then in danger of miscarrying; which must be prevented if possible; therefore having purged the ill humor, and hindering, that no more be engendered, by Chicken or Veal broths, &c. with cooling herbs, pap with the yolk of an Egg well boild, let her quench Iron or Steel in her drink which must be small beer or water, with a little strong, or wine, if she be not Feaverish, for then half a spoonful of syrup of Quinces, or Pomgranates is better; and she may eat a little Marmalade of Quince, or other strengtheners, if she was purg'd before; and because there is always great gripes, they must be appeas'd, by Clysters made of the broth of a Calves or Sheeps head well boild, with 2 ounces of oil of Violets;

SECT. XI.

Of Fluddings.

THe Courses come at accustomed times, without pain, distilling by little and little from the Wombs Neck, during pregnancy and then wholly ceaseth; but these come with pain, from the Wombs bottom, and almost on a sudden in great abundance, and continue without intermission, except some clods, formed there, seem sometimes to lessen the accident, by stopping for a small time the place whence they flow; but it soon returns with greater violence, and after follows death to the Mother and Child, if not prevented by delivering the Woman.

If the Fludding happen when young with Child it's usually because of some false Conception, or Mole, of which the Womb endeavours to discharge it self, by which it opens some of the Vessels in its bottom, whence the blood ceases not to flow, till it hath cast out the strange bodies it contain'd, & the subtiler the blood is the more it flows; but when this happens to one truly Con-

ceiv'd, at whatever time, it proceeds likewise from the opening of the Vessels of the Womb's fund, caused by some blow, slip, &c. and chiefly because the secundine, separating in part if not wholly from the inside of the Wombs bottom, to which it ought to stick, to receive the Mothers blood, for the Childs nouriture, leaves open all the Orifices of the Vessels where it joyned, and so follows a great flux of blood, which never ceases till she be brought a Bed; yet I do not intend it should be done as soon as perceiv'd, for some small fluddings have been stop'd by lying quietly in Bed, bleeding i'th Arm and the use of Remedies mention'd in the menstruous Flux; and it may be but an ordinary monthly Flux; and then 'tis good leaving the Labor to nature, provided she hath strength, and accompanied with no other ill accident; but when she falls into Convulsions and Faintings, 'tis absolutely necessary she be deliver'd, whether she be at her count or no, pains or throws or no, for there is no other way to save both their Lives.

You must not always expect pains and throws to force and forward Labor, in these dangerous accidents, for though they come at the beginning, they usually cease as soon as it comes to Faintings and Convulsions;
neither

neither must it be put off till the Womb be opened enough, for this Flux moistens, and the weakness loosens it, so that it may then be as easily widen'd as if there had been abundance of strong throws. Wherefore let the Midwife introduce her Fingers anointed with Oil or Butter, 2 or 3 at a time, and all by degrees, and at last her whole Hand, and if she find the waters not broke, break them, and then whatever part of the Child presents, though the head (provided it be not Pth Birth) let her search for the Feet, and draw it forth by them; observing the circumstances in delivery of a Child with the Feet first, because there's better hold; so that if the Feet lye not ready seek for them, which is easier done at that time then another; because the Fluddings make the Womb slippery: then fetch the after-burthen, which in these cases cleaves but little, being careful not to leave so much as a clod ith Womb, lest it continue the Fludding.

In this case many Women and Children have perished for want of this operation, and many escaped death by being timely succor'd. *Guillemeau* a Famous French Chirurgeon mentions 6 or 7 Histories to confirm this; and *Moriceau* by his experience avers it, and in

the case of his own Sister too long here to relate.

You are always here to give good strengthening broths, gellies and a little good Wine, and smell to rose Vinegar; and to prevent the blood Fludding in great quantity, open a vein ith Arm, or bind her Arm with fillets above her Elbow, and lay cloaths upon her Reins wet in water and Vinegar; but if this proceeds from the parting of the after-burden, she must be delivered as soon as may be, though she were but 3 or 4 months gone, because all must be brought away whether false Conception, Mole, or Child.

In this case many Women and Children have perished for want of this operation, and many of the dead being timely succor'd. **SECT.**

SECT. XII.

Of the Weight of the Womb, &c.

THis is often caused by the stretching of the large Cords of the Womb, and this will cause an hinderance of Copulation, and a numness in her Hips, sleepiness in her Thighs, and difficulty of Urine. and going to stool; chiefly towards her latter reckonings, because it presseth down the Bladder and great Gut, being seated between both. But she may be easier cur'd of this bearing down after she's layd, than before; for then the Cords will be easier strengthen'd, and she may then use pessaries which she cannot so well with Child.

The help for this from any cause is to keep her Bed, or swaith her; and if she have difficulty in urining, help her self by lifting up her belly with both hands; but if humors cause this, let her keep a drying dyet; as Rost-meat, &c. and refrain Copulation; freight lacing; and above all when in Labor, take care that neither by throws, nor birth of the Child, nor violent drawing the burthen,

SECT. XIII.

Of the Dropsie of the Womb, &c.

THese waters are either bred in the Womb, or brought thither from some other parts, as in the Drople of the belly it passes by transudation through the porous substance of the Skins of the Womb; and these have deceived the Midwives as well as patients, who having long time hoped and been made to hope for a Child, at length find nothing but waters; whereof some have voided a painful, of which are many relations by Physicians and Chirurgeons; These are bred in the Womb when 'tis too cold or weakened by a violent Labor before, or from suppression of filthy humors. When these are sent to the Womb from other parts they are never wrapt in a particular skin, but retain'd only by its exact closure, and flow away as soon as it begins to open; but when bred in the Womb, which is for the most part after Copulation, if the seed be too cold, waterish, or corrupt, they are then sometimes contained within the Skin, which hinder the patients from a speedy discharge of them. She
going

going with it almost as long as with a Child ;
and this is it perswades them they are with
Child.

But 'tis easie to avoid being deceiv'd, if
you take notice of the Signs of a true Con-
ception; for in a Dropſie her breſts are fall-
en, have no Milk, nor finds her ſelf quicken
at the uſual time, but a bubling of moved
waters; a greater weight in her Belly, and
more equal, the Womb, Hips, Thighs and
Legs ſwell, and worſe Colour in her Face;
and as it may come alone, ſo it may accom-
pany a true Conception, the waters being
contained in the Womb without the Childs
Skin. Some have voided 3 or 4 quarts above
2 months before they were brought to Bed,
and then they are contained in the Womb
without the Skin, or elſe the Child would be
forc'd to be born preſently after they are
voided.

The beſt Remedy is to wait patiently
the time of delivery, obſerving a dry dy-
et; but if 'tis only contained in the Womb,
uſe diuretics, and endeavour to procure her
Courſes, and to deſtroy by purges the cau-
ſe of the Generation of ſuch ſuperfluities:
of which the Womb is ſo full, ſometimes
that it diſchargeth ſome on the outward
parts

parts and chiefly the nearest; as the Lips of the Privities, which are so swell'd that they are quite blown up, and in some are so big, that they can't close their Thighs, and hinders walking; now because this may be inconvenient to her during Labor, it will be requisite to remedy it before, which must be done by a Lancet, all along the Lips, then applying compresses dipt in astringent wine; Leeches though less painful are not so proper, because their small Orifices close again as soon as remov'd, but the other may be made as big or little as one will, and kept open by ointment as long as is fit.

SECT. XIV.

Of Abortion and its causes.

WHEN a Woman first beginning calls forth what she had retain'd by Conception, 'tis an *Efluxion* of the Seed; if a false Conception, 'tis an *Expulsion*, but when the Infant's form'd and begins to live, if it come before time ordain'd by Nature 'tis an *Abortion*; and we say in general that every sharp Disease easily causes it; in particular all the accidents before mentioned: as also a great noise, as Cannon, of Thunder claps, watching, fasting, stinks, &c. if she Miscarries without any of these accidents. *Hippocrates* says, any Woman indifferently corpulent miscarrying the 2^d or 3^d month without manifest cause, 'tis because the inward closers of the Womb's Vessels are full of viscons filth, whereby they cant retain the weight of the *fetus*, which is loosned from it; to this are Phlegmatic Women Subject, and who have the whites much which make the Womb slippery, and loose.

Likewise

Likewise the passions of the mind, cause great hurt, chiefly Choler, but above all sudden fear; There are other causes which may be said to proceed from the Infant, as when its monstrous, or hath an unnatural Situation.

If we find one or more of the said accidents, and she hath a great heaviness in her belly, falling like a ball on that side she turns, and there comes stinking humors from her, 'tis a sign she will miscarry of a dead Child; Now she is in more danger of her Life when she miscarries then at full time; and in danger of miscarrying always, if she miscarry at first; because of the violent motion caused by frequent Copulation; but they may preserve their fruit when their love is a little moderated. We have taught before to prevent each accident. Who are subject to Abortion, must rest or keep in Bed, refrain Copulation, as soon as she thinks she's with Child, avoiding *diuretics* and openers; and be loose drest, wear low-heel'd Shoos with broad Soals. Her rest must be 5 or 6 or 9 or 15 days, during which time may be applied to her belly compresses steep'd in Aromatic and Astringent Wine. Some Midwives giving Crimson silk minc'd small in the yelk of an Egg, or Scarlet grains,
and

and Treddles of several Eggs put into a yelk, is superstitious, as if entering the Stomach it were able to fortifie the Womb, and Child and keep it there.

If we find one or more of the said signs, and if a bath of warm water be put on the belly, it may be a sign of the danger of the Child; and if we find more signs, it may be a sign of the danger of the Child. Now this is more dangerous of the Child when the mother is in the third month, and in the fourth month, and in the fifth month, and in the sixth month, and in the seventh month, and in the eighth month, and in the ninth month, and in the tenth month, and in the eleventh month, and in the twelfth month. We have taught before to prevent each accident. Who are subject to Abortion, must rest or keep in Bed, restrain Coitus, as soon as she thinks her's with Child, avoiding labour and exertions; and be loose dress, wear low-heeled shoes with broad soles. Her rest must be 7 or 8 or 9 or 10 days, during which time may be added to her belly compresses steeped in Aromatic and Astringent Wine. Some Midwives giving Opinion like minded small in the yolk of an Egg, or Scarlet Grains, and

PART. III.

*Of Diseases and Symptoms happening to
Women after Child-birth.*

SECT. I.

*Of Remedies for the Breasts and lower
parts of the Belly of Women newly
delivered, and how to draw back the
Milk.*

Mid. **A**S soon Sir as the Woman is deli-
ver'd, and burthen come away,
I see that a fludding follow not its loosening,
if not, apply presently a soft closure 5 or 6
double to the Womb, that done carry her to
Bed, removing all foul Linnen, a little rai-
sing her Head and Body, putting down her
Legs and Thighs with a small pillow if she
R will

will, under her hands, lying on her back. Then the best thing under the Sun to give her is a good broth, and so leave her to sleep; waking apply this pultis over the bottom of her Belly and Privities, take 2 ounces of Oil of Sweet Almonds, 2 or 3 new laid Eggs, stir them together in a pipkin over hot Embers, when 'tis thick apply it indifferently warm, taking away the closures and clods of blood; renew this if need be after 5 or 6 hours, then make a decoction of Barley, Linseed and Chervil, or Marsh-Mallows and Violet leaves, adding an ounce of honey of Roses to a pint; and foment the bearing place Lukewarm 3 or 4 times a day, for the first 5 or 6 days: some use only milk; and others Barley water. After 10 or 12 days fortifie the parts with a decoction of Province Roses, Plantain leaves and roots, and Smith's water. The 2^d day use loose swaths with a large square bolster, over the Belly, till the 8th day, taking it off; ith mean time, often to anoint her Belly, if it be sore, with Oil of sweet Almonds, and *St. John's wort* mixt; then begin to swaith her streighter.

If she will not be a Nurse, apply remedies to the Breasts to drive back the Milk; if she will Nurse them, keep her warm with soft clothes; and if you fear too much blood carrying

rying to them, anoint them with Oil of Roses and a little Vinegar beat together, and lay on fine Linnen dipt in't; let her not suck the Child the same day she's deliver'd, but stay 6 or 7 days.

In driving back the Milk some remedies hinder flowing of humors to the Breasts, others scatter, and, in part, dissolve the Milk therein. Of the first sort are the last ointment, or *unguentum populeum* and *unguentum album*, equally mixt, spread upon Linnen, and applied. Of the 2d is a Pultis made of Linseed, Fenugreek, Beans, and Vetches powder'd, boiled with the decoction of Chervil, or Sage, with Honey and Saffron: some apply Honey only; others rub the Breasts with Honey, and lay on a red Cabbage leaf, a little dryed, the stalks taken away; having great care she take not cold; and above all, procure ample voiding of the clensings, by keeping the belly open, by Clysters provoking them; then the Milk will soon vanish.

R 2 SECT.

SECT. II.

Of Fludding after Child-birth.

OF that preceding Labor before: this blood now flows more abundantly, by how much 'tis hotter, or mov'd by a long and hard Labor, and the Woman's full of blood; and besides what's said, note, sometimes this blood continuing to flow, and remaining i'th bottom oth' Womb becomes clotted, which causeth a new Flud, and continues by Fits, and i'th intervals there comes away some wheyishness of the imprison'd blood, which dissolves, and makes some ignorant People think the Flux is stop'd, tho it continue flowing within, wherein it stops only by the clotted blood, when which comes away it begins a fresh. This is a more dangerous accident then any can happen to one newly lay'd, which dispatches her so soon, if in great quantity, that there's often scarce time to remedy it, so that you are immediately to apply remedies, both to stop, and turn back from the

the places whence it flows; to which end if it be a false Conception, piece of the burthen, or clotted blood, use all diligence to fetch them away, or cause them to be speedily expell'd; but if it flows and nothing remain, bleed her i'th Arm, not so much to empty the fulness, as to turn the course; lay her body equally flat, not raised, and keep quiet without turning from side to side: nor must the upper part of her Belly be swath'd or bolstered; keep her Chamber a little cool, and not too warm in Bed: All forbid Clysters lest they say, humors be cal'd down; but the contrary hath been experimentally found, that great fluddings have been stopt by pretty strong clensing ones,

But if for all this the Flud continues, then to the last Remedy, which is to lay her upon fresh Straw, with a single cloth upon it and no Quilt, applying cloths wet in Vinegar and water along her Loins, and if in the Winter a little warm; give every half hour a little strong broth, with a few spoonfuls of Gelly, and between whiles the yelk of a new laid Egg; give her not too much food at a

R. 3

time;

time; drinking red Wine with a little water wherein Iron hath been quenched; If all this prevail not she will be in danger of her life.

SECT.

SECT. III.

Of the bearing down and falling out of the Womb and Fundament of a Woman newly layd.

ANd here I shall make 2 sorts of Bearing down, and 2 sorts of falling forth; which differ but in degree, for the first is when the Womb only bears down and comes not forth, the 2^d when it comes out of the Body.

The first sort of bearing down, is when the full body of the Womb falls into the Neck, in such manner as putting up a Finger you may feel the Orifice very near; the 2^d when the Womb being yet lower, one can clearly perceive this Orifice quite without.

The falling out is twofold too; in one the Womb comes quite forth, but is not turn'd inside out, nor can its inside be seen, only its orifice; which appears at the end of a great fleshy Mass, which makes the body of

the Womb; and this is cal'd a falling forth of the Womb; the other is cal'd a *perversion* or turning inside out, most dangerous; for you may perceive all even and without any Orifice; and thus it seems to be only a great piece of bloody flesh, almost like a Mans Cod, which hangs between her Thighs; and that which is wonderful, in this case, is, the Womb, the infants house, goes forth at the Gate, which is the inner Orifice.

A loosening or breaking of the Cords causes the bearing down, which comes from hard Labor: who have many whites are subject to it, and heavy Children, Coughing, Sneezings, a fall, going in a Coach or Horseback, great lifts, burdens, lifting the Arms too high, and putting them over their head; looseness, great pains and needings, all which shake and thrust the Womb downwards, when with Child, and the cords being loosened or broken cannot keep it up, so that a bearing down doth easily follow the Birth of a Child; but the most ordinary cause is violent travel when a Child cometh wrong, and cannot be born so, or hath too big an head, or the inner Orifice not enough opened, for the Womb is violently forced down, and yet the Child can't advance into the passage, because the cords are so rent or loosen'd; or
when

when the Secondine sticking close to the bottom is pul'd away on a sudden, or too violently, and much sooner if putting up the hand, as when the String's broke, one pulls the body of the Womb instead of the After-birth ; but your directions will prevent this.

She feels a great weight at the bottom of her Belly, extream pain i'th Reins and Loins; and a bloodish moisture passes through this Mass of Flesh hanging between her Legs. A loosening may happen to all Women, a falling out but seldom, a perfect *perversion* never but upon or immediately after a delivery ; because the inner Orifice is then almost as wide as its bottom ; but not at other times ; when closed there is no possibility of its turning inside out ; how to remedy it, I have told you.

If she be young and disease new, easily expect a cure, for a loosening or falling out, but if she old, and of a long standing, 'tis so much the more incurable.

Here do two things. 1. reduce the Womb to its place. 2. strengthen it and keep it there ; for the first , if it be quite out or turned, first make her render Urine, and give

a

a Clyster, if necessary to empty the Guts; then lay her on her back, her Hips raised a little higher than her Head, foment all with a little wine and water luke-warm, and with a soft rag put it up, wagging it little and little from side to side; and if this be too painful anoint it with Oil of sweet Almonds, wiping off the Oil as much as may be after.

As to the keeping it in its place, and strengthening it after; let her keep in Bed on her back, her Hips a little raised, Legs something crossed, Thighs joined; but the best is to put a pessary up the neck of the Womb; the Figures of which you may see; some of the Figure of an Egg, of the length and bigness of the Womb's neck; but these are Subject to fall out, and so are not so convenient as those made of a piece of Cork; they are to be of a thick circular figure, like a small wreath, and peirc'd i^th middle with a pretty big hole; they must be cover'd with white wax, and pretty large, pull them out with a Finger to clear them; they may be made some round, others somewhat square, or triangu^ler, the corners must be blunted or rounded.

While the *Lochia* flow use nothing else to strengthen, and above all swath not her belly,
but

but only for a stay ; for many Midwives by a strong compression force it more down : use a Bed-pan, and ly along, if possible, when she goes to stool ; keeping her hand all the while on the bottom of her Belly ; but having cleansed well, then use astringent injections, and respect must be had to the whole habit of body to dry up the humors by a course of Physick, and she must keep her Bed for 5 or 6 weeks.

Sometimes by the great throws she endures in Labor the fundament falls out ; now if the Child be very forward ith passage, 'twill be enough to hinder it if possible before it happens, perswading her not to help her throws so much ; but if it be down, she must stay till the Child be born ; for it will be difficult before without bruising the Gut, then reduce it as the Womb, giving no Clysters, for straining will cause it.

SECT.

SECT. IV.

Of the bruises and rents of the outward parts of the Womb, caused by Labors.

THese happen from the bigness of the Child's head, which makes her cry in her first Labor, that the Midwife scratches those parts when 'tis the head makes a separation of the parts, and bruises and sometimes rents them; of which they are not insensible after Labors. These must not be neglected least they turn to malignant Ulcers; then as soon as she's lay'd, if there be only simple bruises, apply the Pultis before directed, to those parts to ease pain, very warm for 5 or 6 hours, then lay some few rags dipt in Oil of *St. John's wort*, on each side, and renewing them twice or thrice a day, foment with Barley water and Honey of Roses, and when she makes water defend them with fine rags.

If the bruises be great, and inflam'd, and an Impostume follows, it must be open'd and cur'd

cur'd by the Chyrurgeon; as also when by an unlucky accident the Privity and Fundament is rent in one; which when cur'd she will be oblig'd, if she happen to be with Child, to prevent the like, to anoint the parts with soft'ning Oils and Ointments, and forbear helping her throws too strongly at once; but usually when these parts have been once rent, 'tis very difficult to prevent the like, because the scar streightens the parts. Lastly if by neglecting such a rent, the Lips be cicatriz'd and the cure be desired, 'tis the Chyrurgeons business.

SECT.

SECT. V.

Of the After-pains.

IF these come from wind i'th Bowels, it runs from side to side, and sometimes towards the Womb; to prevent this some give of Oil of sweet Almonds, and syrup of Maiden-hair, each 2 ounces, immediately after Child-birth; and to those that loath Oil I prefer warm broth, or caudle, and give a Clyster, and repeat it as need is; if it cease not thus 'tis maintained by some other cause.

If from some strange body i'th Womb, see to cast it out. If her clensings be suddenly stop'd, give Clysters to draw down; use hot fomentis to the bearing place; bleed i'th Foot, and if full, i'th Arm first: Rest alone, will fortifie and unite the stretching or breaking o'th Womb's cords; but never forget in all pains to mind the *Lochia*.

SECT. VI.

Of the Lochia, whence they come, if good or bad, their stopping, and what ensues.

THere flows waterish humors from the Womb as soon as the Child is born, besides those before, when the Skins break which are often bloody, because mostly blood's mixt with them, but immediately after the burden is loosen'd there flows pure blood, but after the 1st day there comes waterish humors, when the Vessels close; then they become thickish by heat, more or less as they come in greater or lesser quantity, and the length of time they stay there, and then they resemble troubled milk, which makes People believe 'tis Breast milk.

Now I believe the cause of their change of colour, consistence, and diminution of their quantity, to be no other then that in the suppuration of a great wound; as soon as 'tis made it bleeds fresh, and much but after it yeilds only bloodish humors, then a
white

white matter; so you must imagine there is a kind of wound made by loosening the burden from the Womb, and what comes from it is the *Lochia*: so that they are not what hath stay'd in and about the Womb, during all the time of Child-bearing; for that's the *Secundine*; neither is their any certain rule for their quantity and continuance, being according to the Season, Country, Age, Temper more or less, hot, or moist, the habit more or less full, and Vessels remaining long or short time open: but 'tis finish'd commonly in 15 or 20 days; but after a mischance the less the *fetus* is, and the less time she is gone with Child, the less are the *Lochia*.

If they be fresh but the 3 or 4 first days they are good, else 'tis a pure bloody flux, which will be very dangerous; if of no ill scent, without sharpness, so we know the Womb's without inflammation or corruption, and if they flow in so great quantity as to cause Faintings or Convulsions she's in danger of death, or very much weaken'd, grows lean, and pale, Legs and Thighs swell, and becomes Dropical.

The diseases ensue upon their stopping are almost innumerable, so that to bring them

them down let her avoid all troubles of Spirit, lye quiet, with her Head and Breast a little rais'd; if Feaverish use only broths with a little gelly, above all shun cold drink; give Clysters, and foment her lower parts rub her Thighs and Legs downwards, and bath them too, and apply large Cupping-Glasses, to the uppermost part of the inside of her Thighs; bleed ith Arm first; if very full of humors, for ith Foot would draw too much to the Womb.

SECT.

SECT. VII.

Of the Inflammation &c. of the Womb

This is very dangerous, and the death of most; caused from the Lachæ kept, on bruise; by two hard swatches, falling out o' the Womb, &c. an Impostume or Cancer follows a bruise, if not death; wherefore temper the heat and humors (first extracting or causing the expulsion of strange things remaining i'th Womb; using not the least violence) with Veal or Pullet broth, with Lettice, Purselan, Succory, Sorrel; abstain from Wine, keep quiet in Bed, with anodine Clysters, and bleed i'th Arm, not i'th Foot; reiterate it, because 'tis very pressing, till the greatest part of fulness be a little evacuated, an inflammation diminished, then i'th Foot if need; injecting in the Womb Barley water with Oil of Violets, or milk. An Impostume, Schyrrhus or Cancer is the Physitians or Chyrurgions work.

SECT.

SECT. VIII.

*Of the Inflammation and Aposte-
mation of the Breasts.*

THe Breasts being made of a spongy substance, easily receive in too great abundance, the humors flowing to them from all parts by blood; being over-heat by throws and pains in travel, and so are soon inflam'd; being then painfully stretch'd; to which helps the suppression of the *Lochia*, and a fulness of the whole Body; or it may happen from having been too streight lac'd, some blow, or bruise by tying upon them, or for not giving the Child milk.

Now convenient remedies are speedily to be applied lest dangerous symptoms follow; wherefore the certainst means to hinder the Flux of so great quantity of blood to the Breasts, is to procure a large evacuation of the *Lochia*; the habit of the body is to be emptied by bleeding f'th the Arm; after f'th Foot; chasing into the breasts Oil of Roses and Vinegar beat together, laying upon them

hum, and a 3d part of populeon mixt, or a pulvis of the setlings in a Cutler's Grinstone-trough, Oil of Roses and a little Vinegar mixt together. If the pain continue great, take the crums of white bread and mix with Oil of Roses and the yolks of raw Eggs, upon all these may compresses be laid dipt in Vinegar and water, or plantain water.

When you have emptied the greatest part of the humors; and the height of the Inflammation is past; then draw the milk, or else, unless it be turn'd to matter; pure Honey laid to them resolves milk; or a Cabbage leaf moistned therewith being first a little wither'd and the hard stalks and veins taken away, lace not too streight, nor apply coarse clothes. A whole red Cabbage boild in River water to a pap, and well broisd in a wooden or Marble Mortar, and pulp'd through a Sieve, adding Oil of Comomil, is a very good pulvis.

Let her dyet be cool, not very nourishing, keep her body open, lying on her Back in Bed, all the while; stir her Arms as little as may be, and after the 14th or 15th day of her delivery, being sufficiently cleansed, and inflammation abated, and no longer Feaverish, purge her once or twice; and if for all these

the

the swelling goes not down, but she feels great beating and pain, a hardness more in one place then another, of a livid color and soft ith middle 'tis certain 'twill apostemate: then apply ripening Medicines, as a pultis of Mallows, Marsh-Mallows with their roots, Lilly roots and Linseed bruise'd, boil'd to pap, and pulp'd through a sieve, then add a good quantity of Hogs Grease or *Basilicon*, laying a little cloth thick spread with *Basilicon* upon the place where 'tis likely soonest to break, and the pultis all over it, renewing it 12 hours after, continuing till it be full ripe; then if it open not of it self, it must be open'd by a Lancet or Incision knife, which being the Chirurgion's work, he is to do it.

When the Milk comes, it is to be continued, and the Breast become hard and tender, without any redness, and the separation of all the kernels still with curdled Milk may easily be perceived; the Milk is a great pain, and cannot milk in, with a little pain, chiefly about the middle of the Breast, which is usually black, blue, or red, and is a sign of a fever of 24 hours long, and sometimes less; it is do not turn to an inflammation of the Breast, which it will undoubtedly do, if it be not cured, and the Milk is to be continued.

SECT.

SECT. IX.

*Of the curdling of the Milk in
the Breasts.*

BEcause her Body was much mov'd during Labor; in the beginning of Child-bed her Milk is not well purified, and is mixt with many other humors, which, if they are then sent to the Breasts in too great quantity, cause an Inflammation, but when the Child hath suck'd 15 or 20, or more days, then only the Milk, without other mixture contain'd there, which sometimes curdles, and the Breasts become hard and rugged, without any redness, and the separation of all the kernels fill'd with curdled Milk may easily be perceived; she finds a great pain, and cannot milk them; with a shivering, chiefly about the middle of her Back, like Ice; which is usually follow'd by a Fever of 24 hours long, and sometimes less; if it do not turn into an Inflammation of the Breasts, which it will undoubtedly do, if it be not em-ried, feater'd and dissolv'd.

This

This clodding comes mostly because the Breasts are not fully drawn; either for that she hath too much Milk; or the Child is too weak to suck all, or because she doth not desire to be a Nurse: for the Milk staying in the Breasts looseth its sweetness, and by sowing curdles. This may also happen from taking cold, or not covering her Breasts.

The readiest and surest remedy, from what cause soever, is speedily to draw the Breasts, till they be empty'd, and if the Child cannot, because she is hard milched, let a Woman, till it comes freely, and then the Child will; and that she may not after breed more Milk then the Child can draw, let her dyet breed but little nourishment, and keep her body always open. But when she neither can nor will be Nurse, then her Breasts must not be drawn; for drawing more humors, the Disease will return, if not again emptied. Wherefore 'tis necessary to prevent coming of any more Milk, and to scatter that which is there; by emptying the fulness of the body by bleeding ith Arm and Foot; and strong Clysters, and purging if needfull; and to resolve the curdled Milk, ap-

ply a pulvis of pure Honey; or of powder of Linseed, Fenugreek, Beans and Vetches, boild in a decoction of Sage, Smalage, Fennel, Milk, adding Oil of Camomill; anointing with the Oil first.

SECT.

SECT. X.

Of Choping &c. and loss of the Nipples.

Women are subject the first time to have their Nipples chop'd, which is unsufferable, and the more if hard milch'd, as the first time, when the Milk hath not yet made way through the small holes of the Nipples, which are not yet thorowly open'd, and then the Child takes more pains to suck, and sometimes these chops do so encrease by the Childs sucking, that the Niple's taken quite off the Breast, and there rests an Ulcer very hard to be cur'd. This may happen from the Childs being so dry and hungry that it hath not patience to suck softly, but finding the Milk not speedily to follow as they desire, bite and pinch the Niple so hard that it becomes raw, and at last take it quite away. This happens also when Infants have hot mouths, or thrushes, or the pox soonest.

These must not be neglected, as well because of the great pain, as to avoid their growing worle and worse. Therefore as

soon

soon as they begin forbear giving suck, keeping back her milk for a small time; and if but one Nipple be sore, she may suckle with the other; Applying Allum or Lime-water, or only bath them with Plantain water, putting soft rags dipt in any of them or a ceruse plaister, or *Diapompholigos*, or a little starch powdred; but chiefly take care that nothing be apply'd to distate the Child; wherefore many use only Honey of Roses. Softening remedies are fit to preserve from chops, but when they are already made, dryers are best, and to prevent her from hurts in these parts, and that the rags may not stick to them, put upon them a little Wax, or wooden caps, or leaden ones, they being more drying, like these in the Figure; having several small holes on their tops, as well to give issue to the matter, as that the Milk may pass away.

If the Nipples are wholly suck'd off, then dry the Milk up; and if the Child have the pox, put it to another who must use preservatives against it: but if they be only small, simple Ulcers Fth Mouth without any Malignity, wash them only with Barley water with a little juice of Citrons or Lemons; and let the Nurse use a cooling dyet, and bleed and purge if necessary.

next

The

The Child can take no hold when the Nipples are quite gone, and the small holes are closed up; but if she shall desire to give suck, let Woman by degrees make her new Nipples (after the Ulcer's perfectly heal'd) and unstop the root of the old ones: or using an Instrument of Glass, as in the Figure, she may suck them her self; or 6 times a day; and to preserve them, and shape them, thus drawn out, from sinking into the Breasts again, let her put a small cap upon them as before, and so by degrees she may give suck again.

Dr. Thus far good Mrs. *Entrapelia*, have you expressed your self very knowingly in your Art, as to what we have hitherto treated of concerning Women; there now remains something that I would be satisfied of how far your skill consists in, and that is concerning the Diseases of little Children; because you coming often to visit the Mother, if any thing be a miss about her Infant, it is a common custome to desire the advice of the Midwife in such cases, rather then run presently to the Physitian or Chirurgion. But first let me hear your opinion about the choice of a Nurse,

Mid.

Mid. Sir as I have been very happy to have satisfied you to the best of my knowledge in what concerns Women, before, in, and after their Lying in Child-bed; so likewise shall I answer your request as to what concerns little Children and the Distempers and Symptoms happening to them, and first of the nature and qualities of the Nurse; and if the Mother be the fittest Nurse:

Dr. Thynne good Mr. Bunsby have you expressed your self very knowingly in your Art, as to what we have desired in way of consulting Women; there now remains something that I would be satisfied of how far your skill consists in, and that is concerning the Distempers of little Children; because you coming often to visit the Mother, if any thing be a matter about her Infant, it is a common custom to desire the advice of the Nurse in such cases, rather than run presently to the Physician or Chirurgion. But first let me hear your opinion about the choice of a Nurse.

PART.

PART. IV.

*Of the Diseases and Symptoms happen-
ing to little Children : and of the
choice of a Nurse.*

SECT. I.

*What manner of Woman a Nurse ought
to be ; and whether the Mother be
the best Nurse.*

MAD. First of all Sir there is, and hath been
always divers opinions concerning
Nurses, whether the Mother be fittest for
that office, or a stranger ? as for what my
thoughts are concerning the matter, with
submission to your better judgment in this
and all other cases, I shall fully disclose them
to you.

Now

Now Sir some are for the Mothers sucking her own Child, and will bring you Scripture for it too; for say they did not *Sarah* Nurse *Isaac*? therefore every Woman ought to Nurse her own Child; but this is but a weak Argument; for, from Scripture, to retort their Argument on them, *David* was a King and a Prophet, therefore every man must be a King, and every King a Prophet: others again give you profound reasons, as they imagine; as that the Mothers milk is most convenient for the Child, because it partakes of her nature; But I would ask these People, whether every Cholerick Woman hath Cholerick Children; or every Phlegmatick Woman Phlegmatick Children? and so of the rest: Another reason is, because the Woman they say cannot love her Child, unless she give it suck her own self. But if she do not for all that, in my opinion she is very inhumane and unnatural.

Others again are of a quite contrary opinion, and thwart all this; for first say these, the Child draws its conditions from its Nurse, to prove which they quote several examples; as *Alcibiades* being an *Athenian*, was so strong and valiant because he suck'd a *Spartan* Woman: but *Cornelius Tacitus* says the *German*s were such strong bon'd men, because

cause they suck'd their own Mothers; then why had not *Adriades* been so if he had suck'd his? But all Authors generally describing of what complexion and condition a Nurse ought to be; if every Woman then must Nurse her own Child, any complexion must then of necessity serve the turn.

Since the choice of a Nurse is of so great a concernment (as upon which, the future being of the infant consists) surely this, then requires many serious considerations. For, though she may have milk enough; yet perhaps not good enough; or the woman either sluttish, or unhandy, or careless in the swathing and the dressing of the Child; by which many children (like new vessels, which will keep the favour of that liquor they are first seasoned withal) are sluttish or slovenly so long as they live; or else (being abused at Nurse, are Crooked and Ricketty; full of botches, nasty and nauseous to their own Parents. And many, through their intemperancy, by drinking, to encrease their milk, and perhaps make it bad enough, sleep so securely and profoundly, that they overlook their Nurseries in the night, and the Children are dead by their sides in the morning. Therefore let nurses sleep so often, that they may hear the least cry of the infant.

fant. Let the Nurse then, be of middle stature, and good complexion; active, not fat, (and of a sanguine complexion, if possible) and not in poverty; not under twenty years of Age, not above forty, but rather of twenty five, or thirty. Let not her nipples be great, least it make the child of a wide mouth, because it cannot suck without the contraction of the lips together and left by forcing the Tongue into too narrow a compass, it hinders the swallowing of the milk.

Next, if the nipple be too small, the child is apt to let it slip out of the mouth, and cannot handfomely hold it, so that the infant being frustrated of suck, and yet still exercising suckling, hurts the cheek, and attracts some kind of humors thither, which oftentimes become unnatural Tumors; and oftentimes the cheeks of the infant seem as if they were moved out of their places. Thirdly, by the consent of all, the Nurse must have a large breast (though some think that not so material, because there is more milk collected together in great breasts than ought; and being there, is corrupted, to the prejudice of the Nurse. Wherefore, lest the milk should continue there too long, it is best to have a young lusty child to suck it away; or else to use it some other way; as
by

By the use of young whelps; whom I have seen dye with sucking Womens milk; surely the reason must be, because the milk was of another nature; or else, because curdled and corrupted or milked out some other way, especially, when the Nurse perceives her self prejudiced by it. But it is ever best, that she abound, rather than want Milk; and then in this case it is best they be big, though all Nurses need not have big breasts; for there may be as much Milk, if not more, in a lesser breast, than in a great one.

The next enquiry will be into the manners and behaviour of a Nurse.

The best Nurse then is, she that is mild, chaste, sober, courteous, chearful, lively, neat, cleanly, and handy; because bad conditions, as well as good, are suck'd in with the milk, and so radicated, that it is a hard matter to pull out the bad conditions, and leave the good behind, but that there will be a remainder of the bad conditions, perhaps so long as they live: wherefore, let not the Nurse be of an angry, malepert, and saucy disposition, shameless, scolding, or quarrelsome; not gluttonous, but so careful of her Nursery, that she neither eat or drink that which may be hurtful to the Infant: That

T

she

she do nothing to anger her self, to grieve, or sad her self; for such passions will presently distribute themselves, to the prejudice of the Infant; than which there is nothing of more efficacy to destroy the goodness of the Milk.

Neither is it sufficient that they abstain from the use of their husbands; but when they have wanton thoughts, and lascivious minds, wholly upon Luxury and Venery, they cast off all care of the Nurseries, and dreaming at night of that which their minds run on in the day, and by other filthy pollutions they infect the milk. So also, by the use of their Husbands the Courses are stirred up, by which both the plenty and goodness of milk is derived another way; and so the Child robbed of its nutriment; or else the Nurse conceiveth with Child, and so the Infant becometh diseased and Ricketty, by sucking curdy and unwholsome milk, and is worse for it during life.

Therefore let all those things be avoided, that either do, or are supposed to provoke lust; as, junkets made with spices; also Onions, Leeks, Garlick, and all salt meats are to be avoided: Persly and Smallage, some say, have a peculiar malice to the increase of milk:

milk : besides that, it doth increase lust, and is an enemy to the growth of Infants.

Again, that Nurse were best, that hath lately been brought to bed of a Boy if to Nurse a Boy, the milk of such a Nurse being better tempered. For the milk of a Male Child will make a Female Nursery more spritely, and a man like Virago ; and the milk of a girl will make a boy the more effeminate.

As to the milk, let it be a mean, betwixt thick and thin ; which you may perceive, by dropping it upon the Thumb-Nails ; for if it be too thin, it will run off the sooner, but if thicker, it will stay the longer : let it be sweet, and pleasant, both to the smell and taste ; not offending the palate with rancidness, founess, sharpness, or saltness ; or the nostrils with any strange quality. Let it be candid to the sight, in it self equal in each particles, not infested with brown, yellow, green, blue, or any other evil colour ; or, as sometimes, with various colours and substance ; as, with lines, and streaks upon it : but let that milk be most praise-worthy, that makes as much curd as whey ; which may be tried by this Experiment, viz.

Put some of this milk into a glass, and put in some Myrrh, or Rennet; which being stirred together, will curd, and then may the contents be separated: the tryal is, that if there be most whey, then is the milk thinner in its substance; but if most of curd, 'tis thicker: yet all these may be corrected and amended; for that which is too thick may be mended by an extenuating diet, and the flegmatick matter may be avoided by a vomit of Oxymel, and Exercise before meat, the better to consume and attenuate the thickness of it.

The thinness of Milk is amended by contrary food, such as doth incrassate it: as Fromenty of Wheat, and Rice; Hogs-feet, Calves-feet, Trotters, and sweet Wine, unless somewhat else be in the way to hinder it. Sometimes it happens that the Milk is more tart than it ought to be: wherefore then, all diligence must be had to feed upon such meats as are of the best juice, till that acrimony at least be attempered.

Sometimes there is little or no milk in the breasts; as after some sickness, or notable distemper, now turned into a bad habit, or any other of what kind soever, that possesseth those parts, or is the cause: but that shall

shall not be our business to consider of now.

Now, if these be not the causes, let the Nurse use supping meats, as Broths, Posslets, &c. and eat plentifully, and use rubbings to her Breasts and Duggs, exercising her hands and her Arms by domestick Employments; or instead thereof, let her dance the Child, by which the aliment may be recalled into those parts.

Sometimes cupping-glasses to the Breasts, with a fomentation of emollient herbs boiled in water, and applied warm, either with sponges, or wollen-clothes; after which, chafe them with oyl of Lillies. The seeds of Fennel, and the roots of Parsnips boiled in Barley-water, and buttered. The broth of Hens, or Capons, with Cinnamon and Mace.

Or Poach'd-eggs, with the seeds of *Annis*, and *Dill*; and all things else that are hot in the first and second degree, are good. Earth Worms, (not dung-hill ones,) six or seven of them dried, and powdered, and drank in Barley-water sugared, for a fortnight together.

All these may be of good use in the defect of Milk. As to the inconveniency (if there be any) in too much Milk. If the Milk abound too much, which sometimes is (though seldome) blamable; Then use the decoction of Myrtleberries, and red Roses, and with clothes dipped in it, lay them on the Breasts. Or else clothes imbibed in Vinegar, wherein Cummin-seeds bruised have been infused with Myrrh and Camphire.

By reason of the thickness of the Milk, all those excrements that the Child should send forth, are intercepted; as by Stool, by Urine, &c. The passages for transpiration are stuffed up, so that the progress of the aliment being stop'd, of necessity the Milk must be vomited up; after which will follow much slegmatick matter, a sure argument of crudities.

Sometimes there will arise botches about the Body; much matter, and shot, and quitor will come out of the Nose, and corners of the Eyes, and Eyelids; and the appetite will be lost.

Contrarily, from the thinner and sharper sort of Milk, the Belly is looser than it ought, being troubled with pinches and gripes in the belly of the infant. Also,

Also, very angry pustules and wheals will arise about the body, like the small Pox; and the body groweth weak by little and little, the Infant not caring for food; for the strength of the appetite will be more remiss, by reason of the sharpness of that which the Infant desires; so that it is not much sensible of that aliment which it hath; and that aliment of which it is sensible is naught, and vicious.

Now, as from the over-bundance of Milk, the Infant oftentimes, when it sucks, is overwhelmed, being so puffed up, and the belly distended, as if it would break; until by much pissing, or breaking wind, it is slacker. So where there is too much scarcity of milk, there the Infant being altogether destitute of its nourishment, will pine away; and all the parts of the body being starved, in those years when it most wants nourishment, by reason of vehemency of the innate heat, and that habit of body (that the least blast will puff down) which requires much, and constant aliment.

By all which, Women ought to be the more provident, lest all these mischiefs happen, (especially, not to make choice of such a Nurse, whose poverty must needs starve

her self, and her Nursery ; and if they should so happen, to amend them, as hath been said before) e're they grow incurable, and require the help of another Artist that may cure it.

Or, if the fault in the milk cannot be cured and amended in the Nurse, (which she hath contracted,) Then you have no more to do, but presently to look for another Nurse, that hath none of these inconveniencies ; that so the Infant may have suck enough, which is all it requires ; for want of which, you may hear sad crying, and weeping. And this may be discovered by their dreams, as by the often motion of the lips in the cradle, as if they were sucking when they are a sleep.

Neither is it strange, that the Infant should be sensible of, and Participate of whatsoever food (as meat, drink, and Physick,) that the Nurse taketh : which maketh Physicians purge the Nurse, to cure the Child : if a woman take any purging Physick, she purgeth her Child also. So, *Galen* reports that of Goats, feeding in *Asia*, where Scammony grow, did communicate a purging faculty to their milk. And so the milk of Assees, generally accounted best in Consumptions, is counted better, if the Asse be fed with such

after Child-birth

such herbs, as Maiden-hair, &c. And again, when young Goats suck Sheeps-milk, the rough hair shall lose its coarseness, and become like a fleece of wooll: and so contrarily, when Lambs are brought up by Goats, their wooll groweth the more hairy.

If then the qualities of the milk pass into those that suck them, (as without doubt they do) it is easie to gather, that other impurities follow thither also, neither is it improbable. Surely then, we ought to take no less care of the Nurse than of the Child; as in her diet, exercise, physick, &c. since, whatsoever conduceth to the benefit of the Nurse, tends to the good and welfare of the Infant.

I have been the larger upon this Sir of Nurses, and Milk, because tender Infants can neither make choice of their Nurses themselves; nor discover, or plead for their wants: Their own Mothers, surely, (if they are able) both by duty, and nature, being the most fit to Nurse their own Children; which the greatest Ladies may do, with the greatest conveniences; by reason of their plenty of all things; besides, their attendance of servants, who can bring their Nurseries to them at all hours, be it by night or day,
and

and take it from them again, not to disturb their rest: which also, they may tend at their own pleasures.

The longest time that a Child need be suckled, is till it have teeth to chew with. I shall leave only one caution for Nurses, and and so wind up: and 'tis this: Let Nurses ever milk out some Milk e're they suckle the Child; and after it is suckled, that they rock it not too much presently after, lest violent rocking disturb the meat in the stomach; or the other parts draw away the Milk in the stomach, as yet uncocted.

Dr. Thus far have you done very well good Mrs. *Eutrapelia*, as in all other things so as to what concerns the Choice and office of Nurses; and now if you please you shall hear a few of my observations about the same matter, which it may be, may not be unwelcome to you.

Then you must know that I have taken notice of 2 sorts of Nurses, which I have observ'd in the World; The one sort is such as are of an ill humor or blood; the which settle in their Milk, being the place at that time where they discharge themselves.

Now

Now you must note that these sort of Women are in a better condition when they are Nurses then when they are not; for when they are not Nurses, they are subject to pains in their Arms sometimes, and sometimes in their Shoulders, and sometimes in their Legs or Thighs; or else they are subject to waterish Eyes, or swelling in their Eyes or Nose.

Now the Infants which suck these Nurses, if they be fat, 'tis not good but soft fat, and they are dull and fottish; and coming to breed Teeth they are very sickly and commonly dye, by reason of the reum pushing out of too many Teeth at once; and if they escape this they are more troubled with bad juices in their Infancy, then their Parents in their old age; and if the reum be salt the Milk is of a blackish and blewish colour; but if it be of Choler, 'tis yet the more dangerous and venemous to the Children.

There is another sort of Nurses, and they are such as who after they have layen in, about some 3 or 4 or 5 or 6 months, are taken with their purgations; a thing which never happens to good Nurses; and when this does happen they are more dangerous then the former, and the Child must presently

y be taken away, for they are more apt to conceive then to Nurse; and if they do continue Nurses they do but ruine the Children; for there dyes a third part of the Children; for want of taking care in this particular, which yet seem fat and in good case; for this is the cause of great colic, and windiness in Infants which kills them in a moment; for the least Feaver that takes them carries them away.

And now to come home to the purpose, let me tell you the first and principal of all the qualities in a good Nurse, is that she be the Childs own Mother, as well because of the mutual sympathy of their tempers, as that having much more love for it, she will be much more careful then an hired Nurse, who commonly loves her Nurse Child but with a feined love; so that the Mother, though she be not the best Nurse, should always be preferred before another.

But because there are divers that either will not, or cannot suckle their own Children, there is then an Obligation to provide another Nurse; which should be chosen for the Child's good, as near as may be. For even as we see trees, of the same kind, and growing in the same, yet being afterwards transplanted

planted to another Soil, do produce fruits of a different taste, by reason of the nourishment they draw from thence; even so it fares with the health of Children; and their manners sometimes depend on the nourishment they receive at the beginning; for as the health of the body answers to the humors that all the parts are nourished with, which humors always retain the nature of the food whereof they are engendred; and as for the manners they commonly follow the temperament, which likewise proceeds from the nature of the humors, and the humors from the food; from whence may be drawn this consequence, that as the Nurse is, so will the Child be both in body and mind by means of the nourishment it draws from her.

This may plainly appear in Animals that suck a strange dam; for they always purchase something of the nature of the Creature they suck; being accordingly either of a mild or fierce nature, of a strong or weak body; as may be seen in young Lions which will become tame by sucking a domestic Animal, as a Cow, Ass, or Goat, and on the other side a Dog will become more furious if it sucks a Wolf.

Now

Now the necessary conditions requisite in a good Nurse, are usually taken from her Age, the time and manner of her Labor, the Constitution of all the parts of her Body, and particularly of her Breasts, the nature of her Milk, and lastly from her manners.

As concerning her Age, the most convenient is from 25 to 35 years of Age; Then as to the time and manner of her Labor, it must be at least a month or 6 weeks after that, and not above 5 or 6 months; she must not have miscarried, and she must have layn in of a 2d or third Child, that she may know the better how to perform her Office.

As to the healthful constitution of her body, 'tis the principal thing, on which almost all the rest depend, for she ought to come of Parents that never had the stone in the Reins or Bladder, or Gout, Kings-Evil, Falling-sickness, or any other hereditary distemper; that she have no Scab, or Itch, and that she be strong, neither too tall, nor too low; not too fat, nor too lean, and above all she must not be with Child; let her be of a Sanguine Complexion, which is known by her Vermilion color, not altogether so red, but inclining to white; of a firm, fast flesh; not subject to the Whites, for that's a sign of a bad

bad habit; not red hair'd, nor mark'd with red spots; but black hair'd, or of a Chesnut brown; neat in her Cloaths, of a Sprightly Eye, and a smiling countenance, sound and white Teeth, for if they be rotten her breath may smell; having a good voice to please and rejoice the Child, and a clear and free pronuntiation that the Child learn, not an ill accent from her, as usually red hair'd have, and sometimes those that are very black hair'd with white Skins; for their Milk is hot, sharp and stinking, and also of an ill Taste.

Her Breasts ought to be pretty big to receive and concoct a sufficient quantity of milk; being sound and free from scars, proceeding from former Impostumes; being indifferently firm and fleshy, that their natural heat may be the stronger; she must be broad breasted that her Milk may have the more room to be prepared and digested in, and because 'tis a sign of a great deal of vital heat.

As to her Nipples they must be well shap'd as you observ'd, not too big, nor too hard, nor gristly, nor sunk in too deep; but they must be a little raised, and of a moderate bigness and firmness, with many little holes, that she

she may be soft milch'd, to the end the Child may not take too much pains to draw the milk by sucking them and pressing them with its Mouth.

All these good qualities being found in a Nurse, respecting all the parts of her Body, there needs be no fear but her Milk will be good; The which may be known first by its quantity, the which ought to be sufficient for the Child's nourishment, and not too much, lest it not being all drawn forth, it curd'e and inflame the Breast, by its too long stay there; however it is better to have too much then too little, for she may give the overplus to another Child: it must not be too waterish, nor too thick; but of a middle consistence; the which may be easily judg'd, if she milking some into her hand, and turning it a little on one side, it immediately turns off; but if it remains fixt, 'tis a mark 'tis too thick and clammy; and this if she have but little of, it will stick upon the Childs tongue, pallate, and throat, and so cause as it were a white Cancer, which is more and more heated by reason of their forceable sucking in vain, and they are hereby hindred from sucking: These Nurses will after this Milk a drop or two out of their Breasts, and cry look ye the Child cares not for sucking. There

There is no greater abuse in any thing then in Nurses, for let them make what pretence they will, 'tis nothing but necessity makes them be such: and therefore Mothers ought to have a great care, and to make it their business to surprize the Nurse at her own House, that if there be any miscarriage they may find it out.

As to the colour of her Milk the whitest is the best, and the less white it is, so much the worse; it must be of a sweet and pleasant smell, which is a sign of a good temper; as may be seen in red hair'd Women, whose Milk hath a sour bad scent; and to be compleat in every quality it must be of a good taste, that is sweet and sugar'd; without any sharpness or saltiness, or other strong taste.

Lastly to come to the principal and best conditions of a Nurse, which consists in her good manners, I say that she ought to be careful to cleanse the Child as soon as t'ere is occasion; she ought to be prudent, not Cholerick nor quarrellsome, as well because it may make bad impressions on the Child, as because it heats her Milk; let her not be Melancholy, but merry and chearful, smiling oftento divert it.

She must be sober, not given to Wine or other strong Liquors, and yet less to the excess of *Venus*; but she may moderately use the first, and not wholly abstain from the 2d, if her nature require it; so it be with her Husband: which liberty is freely given them by the great Physitian *Jubertus* in the 7th chap. of the 5th book of his Popular Errors, being founded upon the Experience of all poor Women, who bring up their Children very well, notwithstanding they lye every Night with their Husbands; and from his own, alleging that his Wife had Nursed his Children all very well, although he lay with her every Night, and carressed her, as he said, like a good and faithful Husband; but she must forbear, at least an hour or two after, to give the Child suck.

In fine if a Nurse hath all, or most of these Conditions, as well respecting her Person as manners, and that she maintains this condition by a dyet fit for the Childs temper, and not contrary to her own, there is then great reason to believe she is very fit to make a very good Nurse of, and to bring up the Son of a Prince in perfect health.

And now good Mrs. Midwife, proceed to shew your skill concerning the diseases of little Children.

SECT.

SECT. II.

*Of the Diseases and Symptoms which
happen to Children, and first of their
Diseases in general.*

Mid. Sir withal my heart, I shall gladly unfold to you the very depth of my skill and knowledge in this affair, and would humbly entreat you that you would be pleased to correct me, if I shall, at any time, offer to utter any thing that may not be according to the rules of art, and the practice of learned Physicians; for truly Sir, we Midwives must needs acknowledge our selves to have received most of our skill and knowledge from the writings, conferences and directions of learned Physicians; Now then Sir, I have read that *Hippocrates* divides Childrens diseases according to their ages. When he, like an Oracle, lays down, that in new-born Children there are Ulcers in the Mouth; Vomitings, Coughs, Watchings, Fears, Inflammation of the Navil, moistness of the Ears: at breeding of their Teeth their Gums itch and they fall into Feavers and Convulsions, and a looseness of the

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belly

belly when they breed their Eye Teeth. When they grow older their Tonsils are inflam'd; the joints of the Neck are sprained inwardly, their breath's short; they have the Stone and round Worms, Warts, Standing Yards, Strangury, Kings-Evil, and other swellings; then besides these here mentioned, by the divine Hippocrates, they have other Diseases at other times; as that they are generally infected with the Small-Pox, and Meazels, none or few escaping; Tongue tyed, Chafing, &c. concerning which I shall now in particular give you my method of cure; beginning first with Feavers, Small-Pox, and Meazels, as the most general.

SECT.

SECT. III.

Of Feavers, Meazels, and Small-Pox,
in little Children.

Children are subject to all sorts of Feavers, but chiefly that of corrupt Milk, which is commonly from Cholera; 1st. therefore give cooling and moistening things to the Nurse, as Lettice, Endive, Succory, &c. and *Emulsions* of Barley-water with the four cold seeds, Barley cream, then purge her gently with *Manna*, *Cassia Fistularis*, *Lenitive Electuary*; &c. then give altering remedies to the Infant, as Syrup of Violets, Lemons, Citrons, &c. dissolv'd in Endive or Cichory, or Borage, or Bugloss water; 4 ounces of water to one of Syrup; to which you may add a little white Rose water to make it the more palatable. If the Fever proceed from breeding Teeth, abate the pain, of which hereafter, and give alterers as above-said.

In the Small-Pox and Meazels you have nothing to do but to observe Nature's mo-

tions in the driving them forth, and to assist her if, you see her any ways weak or obstructed, by giving the Child a little Claret with Syrup of Clove Gilly-flowers, and a little Treacle water; but be sure have a care that you encrease not the Feaver; Cochinele, and Bezoar and Saffron are excellent likewise.

Children are subject to all sorts of Feavers, but chiefly that of corruption of Milk, which is commonly from Choler; its effects give cooling and moistening things to the Nurse, as Lard, Elixive, Symply, &c. and Elixive of Bark-water with the four cold seeds, Bark-water, then purge her gently with Elixive of As Fennel, Fennel Elixive; &c. then give altering remedies to the Infant, as Symply of Violet, Lemon Citron, &c. **SECT** I in Elixive of Clove, or Borage, or Borage water; + ounces of water to one of Symply; to which you may add a little white Rose water to make it the more palatable. If the Feaver proceed from breeding Teeth, abate the pain, of which I treat, and give alteratives above.

the Spall-Low and Measles you have nothing to do but to observe the

SECT. IV.

Of the milky scab, Achores, Scald-Head and Lice.

THe milky Scab is at first sucking, the *Achores* after; the *Achores* are not white, but the other are; and possess the whole body, the *Achores* only Head and Face; but are cur'd a like. They are commonly thought to be healthful when they run; because they prevent Convulsions, &c. and they often cure of themselves in time; but if the matter be very sharp they peirce the Skull. Dry these up not rashly, so they disfigure not the Face, or endanger the Eyes; but first try to drive them forth with such things as you were told in the Small Pox: let the Nurse forbear sharp salt things, prepare her Body with Borrage, Succory, Endive, Bugloss, Fumetory, Polypody and Dock-roots, and then purge her with Sena, Polypody, Epithymum, &c. If you fear it will turn to a scald Head, foment it with a decoction of Mallows, Barley, Celandine, Wormwood, Marsh-mallows boild in Boys urine and Barley water, and then anoint with Oil of Ro-

fes, and Lytharge of Gold : and if the Scull come to be bare, dress it with Honey of Roses and Brandy ; and after with Powder of round birth-wort, and Balsome of *Pern*, Turpentine and Tobacco water.

If you have occasion to use stronger Medicines for a scald Head, take sulphur 2 drams Mustard seed half a dram, Stavesacre, bryony roots, each 1 dram ; Vinegar 1 ounce, Turpentine half an ounce, with as much Bears Grease as will make it into an Oyntment : or beat water-Cresses with Hogs Grease. When the Scab is fallen off pull the hair out by the roots, with instruments or Medicines ; commonly they use a pitch'd cap, and pull it violently to bring away the Hair : or take Starch or Wheat-flower 2 ounces, Rosin half an ounce, boil them in water to the consistence of a pultis, lay it upon the several Scalds, let it stick some days, then pluck it off violently.

For Lice, to prevent them, let them not eat food of ill juice as Figs, &c. let her Head be often comb'd and wash'd, and purge the Nurse or Child ; then give things to draw the humor out as you have been taught, and then consume the superfluous moisture ; as with this, take *Elacampana* 2 ounces, Briony roots

roots half an ounce, Beets, herb Mercury, Soap-wort, each an handful, Nitre half an ounce, Lupines 2 drams; boil them for a Loti-on, then anoint them with this following, take powder of Staveacre 3 drams, Lupines half an ounce, Agaric 2 drams, quick Sul-phur, a dram and half, Oxe gaul half an ounce, with oil of Wormwood as much as will suffice to make it into an Ointment.

SECT.

SECT. V.

Of the watry swelling of the Head.

WE speake here of the water without the Scul ; for which take 30 snails with their shels, Marjoram, Mugwort each an handful, with oil of Chamomil make a pultis ; and sauff up this water often : take Nutmegs, Cloves, Cubebs, each a scruple *Calamus Aromaticus*, Frankincense bark each half a dram, Majoram water 3 ounces ; If in 20 days this doth not the cure, then you must consult with the able Surgeon for the opening it.

T. 32 :

SECT.

to the Nurse, if that will not do; you
may venture a little Juice of Marsh-mallows

SECT. VI.

*Of Frights in the Sleep, and
Watching.*

YOU must see to cure this presently, for 'tis the fore-runner of the Falling-sickness; give good Milk, and not too much to overcharge the Stomach; let not the Child sleep presently after food, but carry it about, and Jog it to the bottom of the Stomach, give it 2 or 3 Spoonfuls of oil of Sweet Almonds or Honey of Roses. If it come from a Fever, Teeth or Worms, they are treated of a part.

As for the Childs watching you must take notice, that a new born one sleeps more then it wakes; because its brain is very moist and it slept in the Womb. If you cannot make it sleep by singing or rocking, &c. 'tis a Disease, and if not cur'd will produce Catarrhs, Convulsions, Feavers, &c.

If it proceed from bad Milk, that must be amended; if from a Fever or pain, remove them, and give sleeping Medicines
to

to the Nurse, if that will not do, you may venture a little Lettice or Purcelan water.

You must be so careful this preface for
in the fore-front of the Child's
with this good Milk, and not too early to
overburden the Stomach; let not the Child
be particularly after food, but carry it about,
and pay it to the bottom of the stomach,
give it a or a Spoon full of oil of Sweet Al-
monds or Honey of Rose. If it come from
a Fever, Tenth or Twelfth day, they are treated

SECT.

as for the Child's weaning you must take
notice that new born one flows with
it weakly, because its brain is very moist, and
it lies in the Womb, if you cannot make it
sleep by hanging or rocking, &c. it is a
fever, and not a cold will produce Coughs,
Coughs, Fevers, &c.

It is weaned from bad Milk, but must
be careful; if from a Fever, it is
more so, and give sleeping draughts
to

SECT. VII.

Of the Falling-sickness and Convulsion.

THe first is either by consent from parts below, when the Milk corrupts in the Stomach; or from its ill quality from the Nurses bad dyet; or from Worms or Vapors; or from the brain first, when humors are bred there that cause it; or from Tooth-ach, or sudden fright.

To prevent it give the Child as soon as 'tis born, oil of Sweet Almonds, Sugar-Candy, and Anniseeds powdered. The *Florentines* apply a Caustick to the hinder part of the Head; the best part of the cure is the Nurses dyet. If from corrupt Milk provoke vomit by holding down the Tongue, and pour some Oil of sweet Almonds down the Throat. The same means may be used in Convulsions, only anointing the spine of the back with Oil of Chamomil, *St. John's wort*, Worms, Goose-grease, Foxes Oil, &c.

SECT.

SECT. VIII.

Of pain in the Ears, Moisture, Ulcers and Worms.

THe first is allayed by using warm Milk to them, or Oil of Violets, or the decoction of Poppies: for the moisture take Honey of Roses, and *Aqua Mellis*, and drop them into the Ears; for Worms, they are kil'd by washing the Ears with white Wine, wherein Wormwood hath been boiled, or drop in Hemp Oil with a little Wine.

SECT.

SECT. IX.

*Of the Thrush, bladders of the Gums,
and Inflammation of the Tonsils.*

FOR the first, wash the Mouth with Plantain water, and Syrup of Mulberries, with a little *Sal Prunella*; the Bladders are cured by taking the powder of Lentils husked and laid upon them. If the Tonsils of Infants chance to be inflam'd, give them Honey of Roses, Myrtles, Pomegranates, and *Diamoron* inwardly, and oil of sweet Almonds, Camomil and *St. John's* wort outwardly.

SECT.

SECT. X.

Of the breeding of Teeth.

Here the pain is great, and many time kills the Child ; it happens about the 7th Month ; they breed first the fore Teeth, then the Eye-Teeth, and last of all the grinders, 'tis known by the Child's often putting its Fingers to its Mouth, by holding the Nipple faster then before ; and the Gum is white where the Tooth begins to come. If the Teeth are long a breeding it causes Feavers and Convulsions, of which many dye. Their hard breeding is from thickness and hardness of the Gums, therefore soften and loosen them by rubbing them with your Fingers dipt in Honey and Butter ; or with the mucilage of Quinces made with Mallow water ; If the Gums be inflam'd add the juice of Houseleek and cream ; and let the Nurse keep a temperate dyet.

SECT.

SECT. XL

Of a Catarrh, Cough and difficult breathing.

THese proceed from much Milk that burthens the Stomach, and many vapors from thence filling the Brain, and if the brain be full of excrements they are dissolved, either by inward heat or outward cold; and so distill upon the Nose, Jaws, or Lungs, which causes a Cough, or short breathing; moreover much food makes crudities in the first passages; and Phlegmatick humors are bred by the Liver of crudity and thick humors whence unconcocted blood is sent by the Arterial Veins into the Lungs, and pressing the pipes of the Lungs causeth difficult Breathing.

First, let the Nurse keep a good dyet, and fill not the Childs Stomach too full with Milk or other dyet; and let the Nurse forbear all hot, sharp, salt, sour things, and such as fill the Head with Vapors; and give her a pectoral decoction such as this; take Figs and Jujubes, each 10, Sebestens 30, Raisins stoned

SECT. XII.

Of the Hiccup and Vomiting.

They come from corruption of the food in the Stomach, or over fulness of milk or cold Air; these hurt the expulsive faculty, which stirs it self up to expel what offends it. If from fulness of Milk the belly swells, and there follows Vomiting; if from corruption of Milk it may be the Nurse hath bad Milk, the Child cries and is in pain, and the excrements smell of stinking Milk. If from corruption, put a feather dipt in oil to cause Vomiting, then strengthen the Stomach with syrup of Mints, Quinces, or Betony, &c.

Vomiting is from too much or bad Milk, or from a moist Stomach, for as dryness retains, so moistness loosens. If from much Milk they are better after vomiting; if from corruption of milk, what's vomited is yellow, green, &c. and stinks; worms are known by their signs, they that vomit from their birth are the lustiest, for the Stomach not being used to meat, and taking too much Milk breeds crudities, or corrupts the Milk, and

'tis better to vomit these up ; but if it last long, it causes a washing ; If from too much Milk give it less ; if corrupted amend it ; as before, and cleanse the Child with Honey of Roses and then strengthen the Stomach, as before ; and if the humor be sharp and hot, give syrup of Pomegranates, Currans, Coral. Apply *Emplastrum crustæ panis*, or the stomach cerat to the Stomach.

SECT.

SECT. XIII.

Of the pains and puffing of the Belly.

PAins are often with a Flux, from corrupt Milk, which breeds wind and sharp humors; which gnaws the inward parts, so do Worms. The Child cries continually, refuses the Breast, tosses too and fro: if from wind, it breaks wind, and is gone; if from humors 'tis constant, from tough Flegm, the Belly's bound and dung slimy; from sharp humors there's sign of them, if the pain last long Convulsions, or Falling-sickness follow; If from crude humors and wind, give first a Clyster, of Chicken, Mutton or Veal broth, 3 or 4 ounces, adding Honey of Roses one ounce, with the yelk of an Egg, or give it some Oil of sweet Almonds, with Sugar-candy, and a few Anniseeds powdered, a scuple or so, which purges new born Babes from green choler, and stinking Flegm: if given with Sugar pap, it allays the pains of the Belly. Anoint the Belly with Oil of Dil; and foment it with a decoction of Camomil flowers, Dil tops, and Bays, twice a day; If pain be from corrupt sharp Milk, give Honey of
 X 3 Roses,

Roses, or syrup of Succory with Rubarb ; or
a Clyster of the decoction of bran with Ho-
ney or syrup of Roses, and anoint as before.

The puffing comes from too much sucking and not concocting, which is cured by a thinner dyet that crudities may be concocted, and purging with Honey of Roses.

SECT.

SECT.

SECT. XIV.

Of the Flux of the Belly.

IF from breeding of Teeth see the signs, if from outward cold there are signs of no other causes; if from crude humors there's wind, belching and flegmatick excrements, but if they be yellow, green, &c. tis from a hot and sharp humor. If it last long stop it; if black excrements be voided with a Fever tis bad,

The Child needs not cure so much as the Nurse; mend the Milk, or change the Nurse, and let her not eat green fruit, and things of hard concoction. If it suck not take away the causes with Honey of Roses; then if the cause be hot give syrup of Quinces, dry'd Roses, Myrtles, with a little fine Bole-Armorack, Sanguis Draconis or *terra sigillata*; If the cause be cold, and excrements white, give syrup of Mastick and Mints.

.SECT. XV.

Of Constiveness.

IT is from a cold and dry distemper, in some from the Birth, or from slimy Flegm, that wraps the dung which sticks in the Guts, this is from bad Milk when the Nurse eats gross food, slimy and binding, or drinks little, or from an hot distemper of the Liver or Kidneys that dries the excrements, or if Choler stirs not up the expulsive faculty, then the dung is white and the body yellow. Children are more healthful with a loose Belly, distressed by observing contraries, as all other Diseases are, from slimy Flegm, give Honey of Roses, correct the distemper of the Liver, &c. with syrup of Violets, and cooling Emulsions, as before. In want of Choler the decoction of Grass roots, Fennel, Sparagus, Maiden-hair. In all which you may give sometimes Clysters and Suppositories.

SECT. XVI.

Of Worms.

They are known by a stinking Breath, troublesome sleep, gnashing of Teeth, bawling, dry Cough, Vomiting, Hiccups, great thirst, swell'd Belly, or bound, or too loose; when the Belly is empty and they want food there's a cold sweat over the Face, and an high color with sudden paleness, sometimes a Fever and Convulsion which ceaseth presently.

First, 'Tis best to prevent them by eating meats of good juice, with Oranges and Lemons, &c. and avoiding sweet clammy meats Flesh and Fruits; If there be Worms kill them with powder of Corraline, Wormseed, Harts horn, or infuse 8 or 10 grains of *Mercurius dulcis* all Night in Grass, Borage, or Bugloss water, pouring them from the Mercury, and give the Child the water. The waters with the juices are very good. Some apply a Plaister of *Aloes* to the Navil. There is no better thing under the Sun, then to infuse a dram or 2 of *Sena* in water, and put some

some of the juices to it when 'tis strain'd.
Use varieties that the Worms may not be to
familiar with one.

SECT. XVII.

Of the Rupture.

IF this be from a Gut keep the Belly open,
keep the Child from crying, avoiding mo-
tion, lay it upon its back, thrust it up gently,
then apply an Emplaster of *ad Herniam*, or
Castris. If from water anoint with oil of El-
der, Bays, Rue, &c. or apply a pultis of
powder of Beans, Linseed, Fenugreek, Ca-
momil flowers, with these Oils.

SECT.

SECT. XVIII.

Of Bunching out, and Inflammation of the Navil.

IF the Midwife left too much of it **W**hen it bunches out, it is more troublesome then dangerous, if the rim of the Belly be loose, it starts not much out, and is not bigger by crying; and wind stretches it out; then use a pultis of Cummin, Bay-berries, Lupines powdered with red Wine, then use an Astringent Plaister as in Ruptures and rout it. If the rim be broken, first put in the Gut, then bind it close after you have apply'd an astringent Plaister, and given Medicines as against Ruptures.

The Inflammation is from pain when 'tis not well tyed, which draws blood to it: There's redness, hardness, heat and beating, if it turn to an Impostume and breaks, the Guts come forth and the Child usually dyes, if not presently hope by a skilful Chyrurgeon: First abate the Inflammation with *Unguentum album*, and *Populeon*, &c. and repel the blood with a dram of Frankincense, Acacia, and Fleabeane seed of each half a dram, made into a pultis with some white of an Egg.

SECT.

SECT. XIX.

Of the falling out of the Fundament.

When the Muscle that shuts it is loose then it comes forth; if it come from moisture 'tis hard to be cur'd, especially if there be a looseness, for then Medicines cannot lye on. If with streining if it be swel'd, foment it with a decoction of Mallow, and Marsh-mallows; or anoint with oil of Lillies; then keep it in with astringents, as rake red Roses, Pomegranate pills, and flowers, Cypress Nuts each half an ounce, Sumach, Frankincense, Mastick, each 2 drams, boild in red Wine, foment it with sponge; then sprinkle on this powder, red Roses and Pomegranates flowers, each half a dram, Frankincense, Mastick, each a dram laid upon a clout and kept to the Fundament.

SECT.

SECT. XX.

Of difficulty and stopping of Urine.

TIs caused from thick humors, and the Stone that stops the Bladder: its voided by drops, and is thick; then let a Surgeon try with a Catheter if there be a Stone, and if it be not presently cured it turns to one; and all natural evacuation in Children being stoppt is dangerous. Evacuate the humors with Honey of Roses, *Cassia*, white Wine and water; or take the blood of an Hare, dry'd to powder 1 ounce, Saxifrage roots powdered 6 drams; give from a scruple to half a dram in white Wine, or Saxifrage water.

SECT.

SECT. XXI.

Of not holding Urine.

THis comes from a cold and moist distemper, which weakens the Muscle that should close the orifice of the Bladder, and when much water pricks it, it suffers it to come forth; sometimes a stone hurts it that it cannot do its duty. First, then alter the distemper, dry and consume the Flegm, let the Nurse have a Dyet with Sage, Hyssop, Marjoram, &c. let not the Child drink much.

SECT.

SECT. XXII.

Of Leanness and Betwitching.

IF from little or bad Milk, remedy it; or from Worms, or Worms in the Skin, which is known by putting the Child into a Bath and rubbing it with Honey and Bread, and then you will see they will put forth their heads like Ash coloured and black hairs, in the Back, Arms or Legs, and all Musculous parts and stick in the Skin; and they breed of slimy Matter shut up in the Capillar veins; which turns to Worms from transpiration hindered. If you find no other outward or inward cause you may suspect a venomous vapour, or Witch-craft.

If for want of Milk change your Nurse; or if she have any disease, or be contrary to the constitution of the Child. If from worms in the Skin, when you see their heads appear by rubbing and as before kill them with a Rasor or Crust of Bread. If from an occult quality or Witchcraft 'tis hard to be cured because we know not the nature of the malignity. There are many superstitious things carried about against Witchcraft, some having

Of Womens Diseases

having Amber and Coral about the Childs
neck. If it be from a dry distemper of the
whole body, there is no better remedy then
bathing often in a decoction of Mallows,
Marsh-Mallows, Brankustine, Sheeps-head,
&c. anointing after with Oil of sweet Al-
monds: and if it be hot and dry add Lettice,
Endive, Violets, Poppy-heads, and Onions
and after with Oil of Roses and Violets.

*many of these her book
god give her grace that
she look not to look but
to render thanks to him
that hath so goodly
bestowed on her*

July 2 1790

outward or inward cause you may suspect
a venereal vapour, or White-crass
If for want of Milk change your Milk
or if the have any distill, or brackish
the constitution of the Child. If there worms
in the Skie, when you see their heads appear
by rubbing and scratching with a
Razor or Staff of Ivory. If there be
any quality of Windward as hard to be
enterd because we know not the nature of the
malignity. There are many Physicians
this directed about White-crass
having